

NEWFIELD



December 6, 2005

State of Utah  
Division of Oil, Gas & Mining  
Attn: Diana Whitney  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill: 5-18-9-16, 6-18-9-16, 12-18-9-16, 13-18-9-16, 14-18-9-16, 15-18-9-16, 1-23-9-16, 2-23-9-16, and 4-24-9-16.

Dear Diana:

Enclosed find APD's on the above referenced wells. The proposed 13-18-9-16, 14-18-9-16 and 15-18-9-16 are Exception Locations. Our Land Department will send you the required Exception Location Letter. If you have any questions, feel free to give either Shon Mckinnon or myself a call.

Sincerely,

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

RECEIVED

DEC 08 2005

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.  
UTU-64379

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA Agreement, Name and No.  
N/A

8. Lease Name and Well No.  
Federal 14-18-9-16

9. API Well No.  
43-013-33000

10. Field and Pool, or Exploratory  
Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area  
SE/SW Sec. 18, T9S R16E

12. County or Parish  
Duchesne

13. State  
UT

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator  
Newfield Production Company

3a. Address  
Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)  
(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface SE/SW 1040' FSL 2047' FWL 571413X 40.026589  
At proposed prod. zone 4430834Y -110.163094

14. Distance in miles and direction from nearest town or post office\*  
Approximatley 14.9 miles southwest of Myton, Utah

15. Distance from proposed\*  
location to nearest  
property or lease line, ft.  
(Also to nearest drig. unit line, if any) Approx. 1600' f/lease, NA' f/unit

16. No. of Acres in lease  
1626.36

17. Spacing Unit dedicated to this well  
40 Acres

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft. Approx. 1266'

19. Proposed Depth  
5910'

20. BLM/BIA Bond No. on file  
UT0056

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
6117' GL

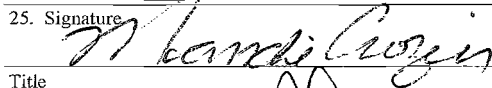
22. Approximate date work will start\*  
1st Quarter 2006

23. Estimated duration  
Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

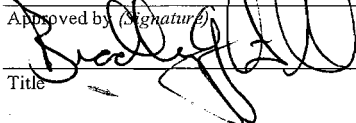
1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature  


Name (Printed/Typed)  
Mandie Crozier

Date  
12/6/05

Title  
Regulatory Specialist

Approved by (Signature)  


Name (Printed/Typed)  
BRADLEY G. HILL  
ENVIRONMENTAL SCIENTIST III

Date  
02-07-06

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

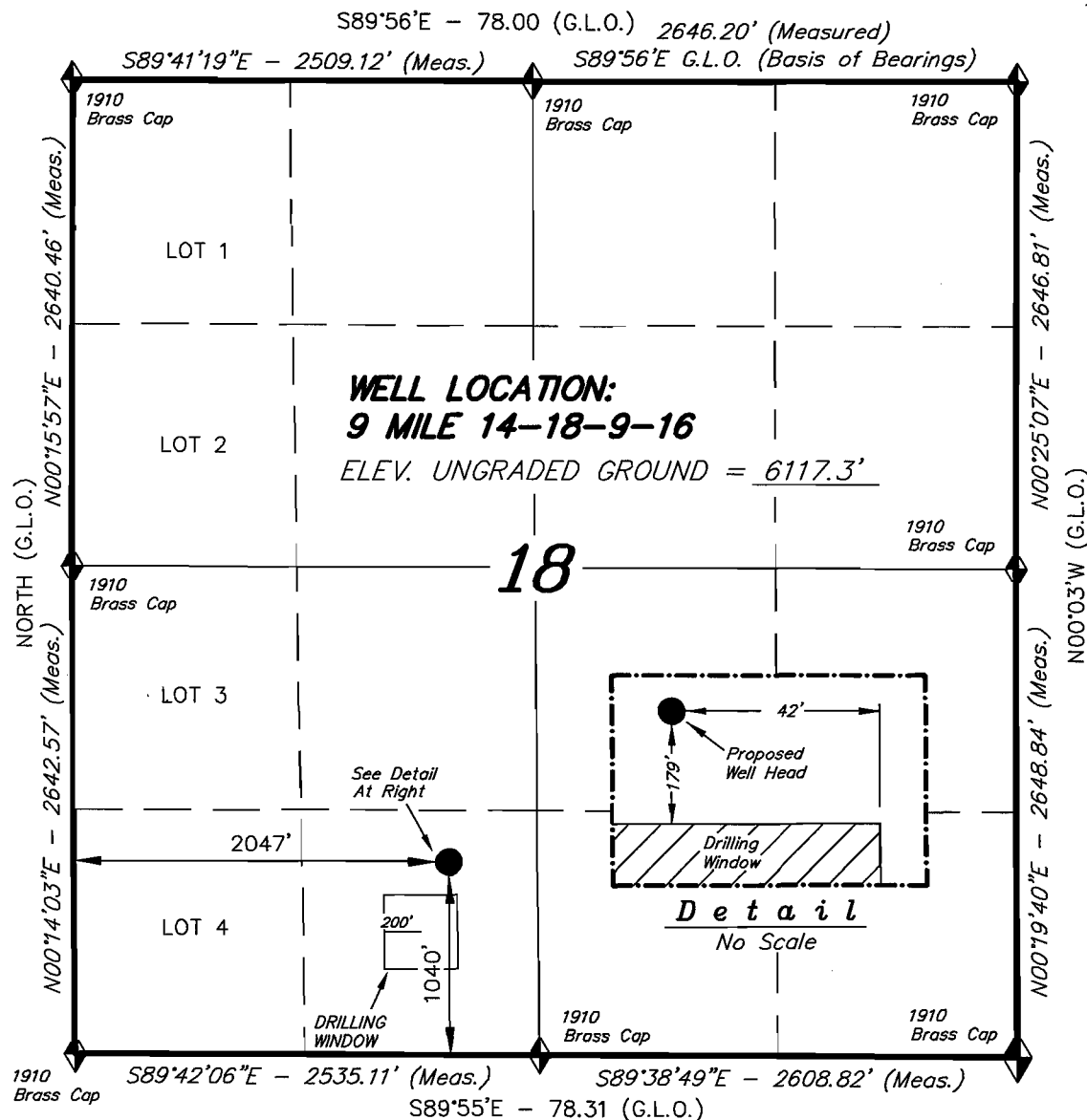
Federal Approval of this  
Action Is Necessary

RECEIVED

DEC 08 2005

BUREAU OF OIL, GAS & MINING

# T9S, R16E, S.L.B.&M.



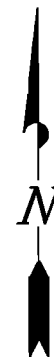
◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SW)

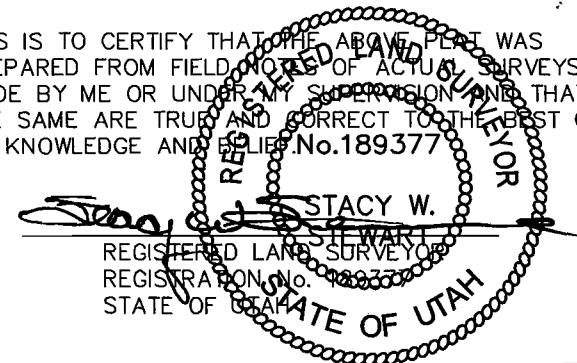
9 MILE 14-18-9-16  
(Surface Location) NAD 83  
LATITUDE = 40° 01' 35.35"  
LONGITUDE = 110° 09' 49.68"

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, 9 MILE 14-18-9-16,  
LOCATED AS SHOWN IN THE SE 1/4 SW  
1/4 OF SECTION 18, T9S, R16E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377



## TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 11-20-05	SURVEYED BY: K.G.S.
DATE DRAWN: 11-22-05	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

NEWFIELD PRODUCTION COMPANY  
FEDERAL #14-18-9-16  
SE/SW SECTION 18, T9S, R16E  
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	0' – 2545'
Green River	2545'
Wasatch	5910'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 2545' – 5910' - Oil

4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

**NEWFIELD PRODUCTION COMPANY  
FEDERAL #14-18-9-16  
SE/SW SECTION 18, T9S, R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site Federal #14-18-9-16 located in the SE 1/4 SW 1/4 Section 18, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southwesterly along Hwy 53 - 1.8 miles  $\pm$  to it's junction with an existing dirt road to the southwest; proceed southwesterly - 10.8 miles  $\pm$  to it's junction with the beginning of the proposed access road to the northeast; proceed northeasterly along the proposed access road -3,870'  $\pm$  to the proposed well location.

**2. PLANNED ACCESS ROAD**

See Topographic Map "B" for the location of the proposed access road.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

All permanent surface equipment will be painted Carlsbad Canyon.  
Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

**5. LOCATION AND TYPE OF WATER SUPPLY**

Please refer to the Monument Butte Field SOP. See Exhibit "A".

**6. SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Monument Butte Field SOP.

**7. METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

**8. ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #04-328, 1/19/05. Paleontological Resource Survey prepared by, Wade E. Miller, 5/11/05. See attached report cover pages, Exhibit "D".

For the Federal #14-18-9-16 Newfield Production Company requests a 195' ROW in Lease UTU-02458 and 3675' of disturbed area be granted in Lease UTU-64379 to allow for construction of the proposed access road. **Refer to Topographic Map "B"**. The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests a 195' ROW in Lease UTU-02458 and 3675' of disturbed area be granted in Lease UTU-64379 to allow for construction of the proposed gas lines. It is proposed that the ROW and disturbed area will be 50' wide to allow for construction of a buried 6" gas gathering line, and a buried 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

**Water Disposal**

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

**Threatened, Endangered, And Other Sensitive Species**

**Golden Eagle:** Due to this proposed well access roads proximity (less than 0.5 mile) to an existing inactive golden eagle nest site, no new construction or surface disturbing activities will be allowed between March 1 and May 15. If the nest remains inactive on May 15<sup>th</sup> (based on a pre-construction survey by a qualified biologist), the operator may construct and drill the location between May 15 and March 1 of the following year. If the nest site becomes active prior to May 15, no new construction or surface disturbing activities will be allowed within 0.5 mile of the nest until the nest becomes inactive for two full breeding seasons. In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.

**Sage Grouse:** If new construction or surface disturbing activities are scheduled to occur between March 1 and June 30, detailed surveys of the area within 0.5 mile of the proposed location must be conducted to detect the presence of sage grouse. All surveys must be conducted in accordance with the survey protocols outlined in the most recent USFWS Survey Protocol. Surveys must be completed prior to initiating new construction or surface disturbing activities. In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.

**Reserve Pit Liner**

A 12 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Crested Wheatgrass	<i>Agropyron Cristatum</i>	12 lbs/acre
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**Details of the On-Site Inspection**

The proposed Federal #14-18-9-16 was on-sited on 8/30/05. The following were present; Shon Mckinnon (Newfeild Production), Byron Tolman (Bureau of Land Management), and Todd MaGrath (Bureau of Landmanagement). Weather conditions were clear and ground cover was 100% open.

13. **LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

Representative

Name: Shon Mckinnon  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

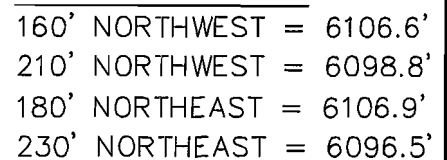
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #14-18-9-16 SE/SW Section 18, Township 9S, Range 16E: Lease UTU-64379 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

12/6/05  
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company



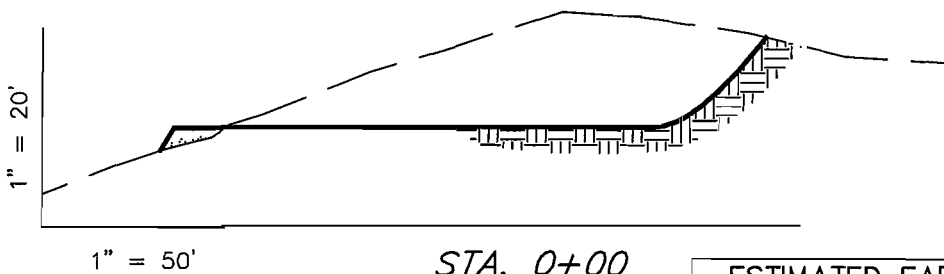
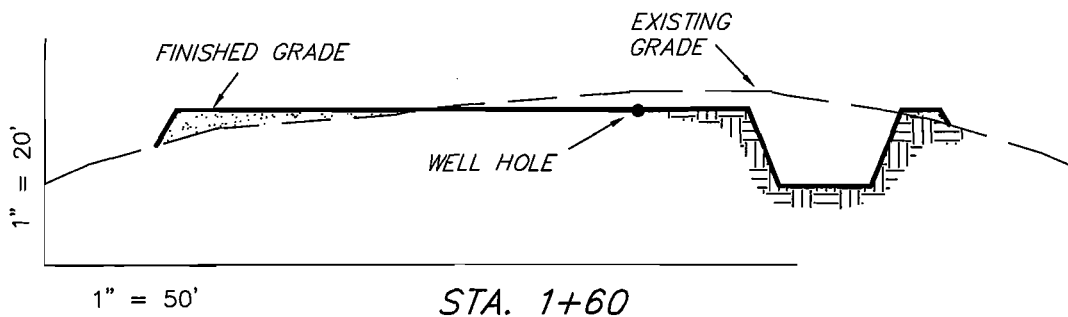
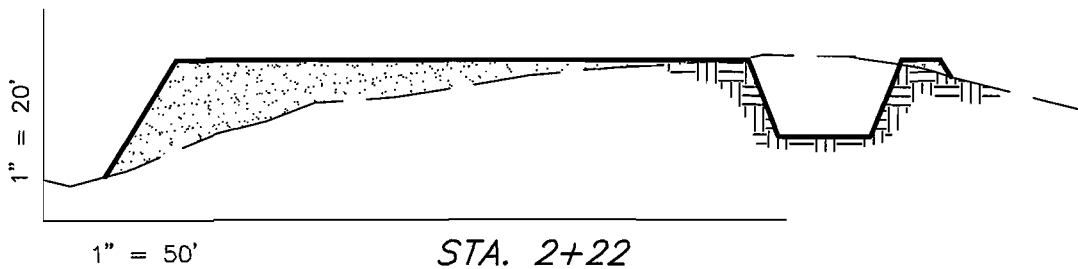
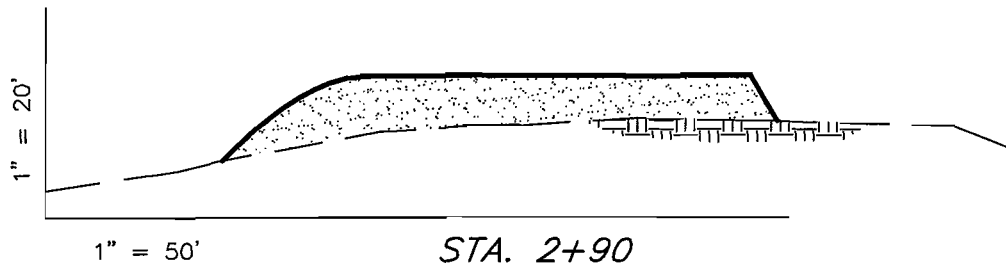
**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078



# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

9 MILE 14-18-9-16



NOTE:  
UNLESS OTHERWISE NOTED  
ALL CUT/FILL SLOPES ARE  
AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES  
(No Shrink or swell adjustments have been used)  
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	3,880	3,880	Topsoil is not included in Pad Cut	0
PIT	640	0		640
TOTALS	4,520	3,880	1,040	640

SURVEYED BY: K.G.S.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

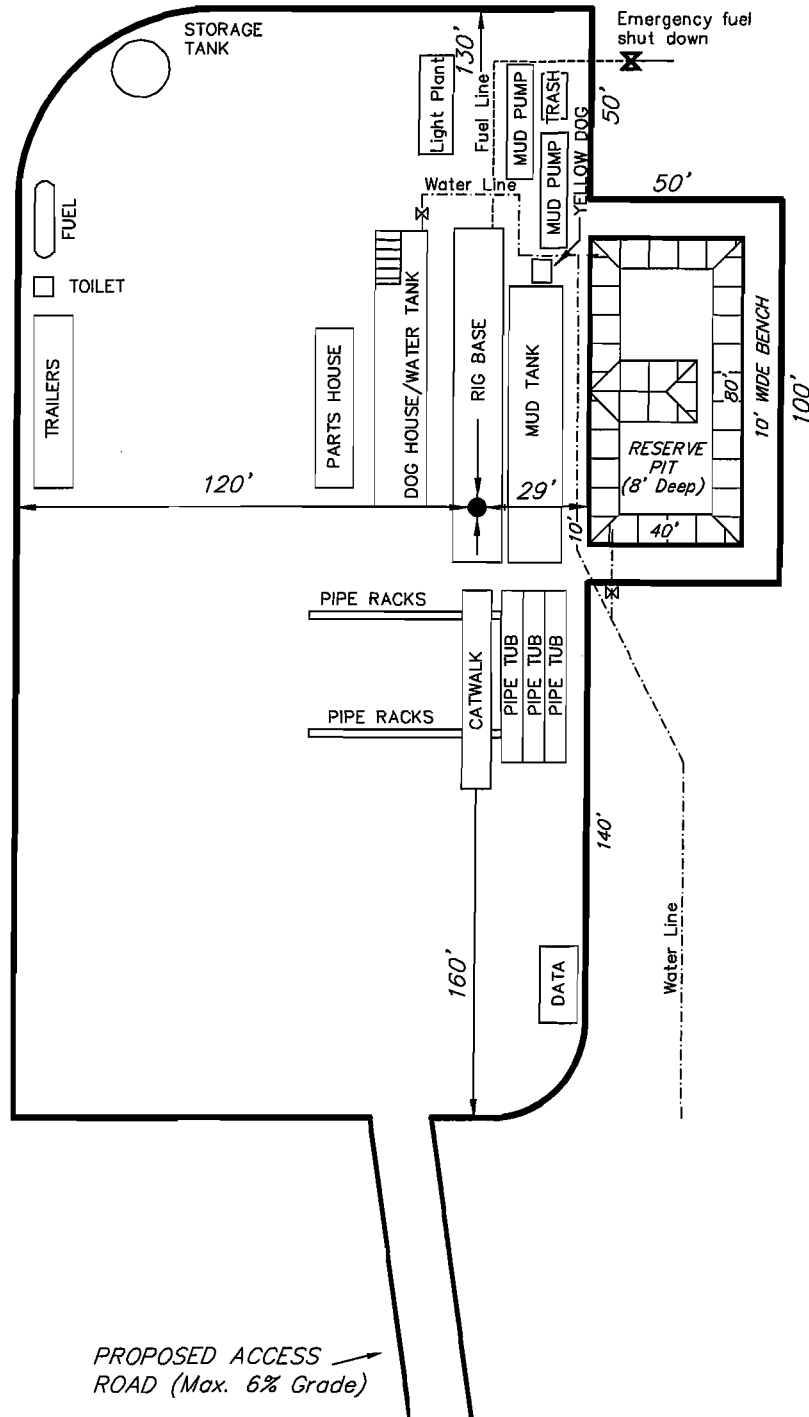
DATE: 11-22-05

Tri State  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
(435) 781-2501

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

### 9 MILE 14-18-9-16



SURVEYED BY: K.G.S.

SCALE: 1" = 50'

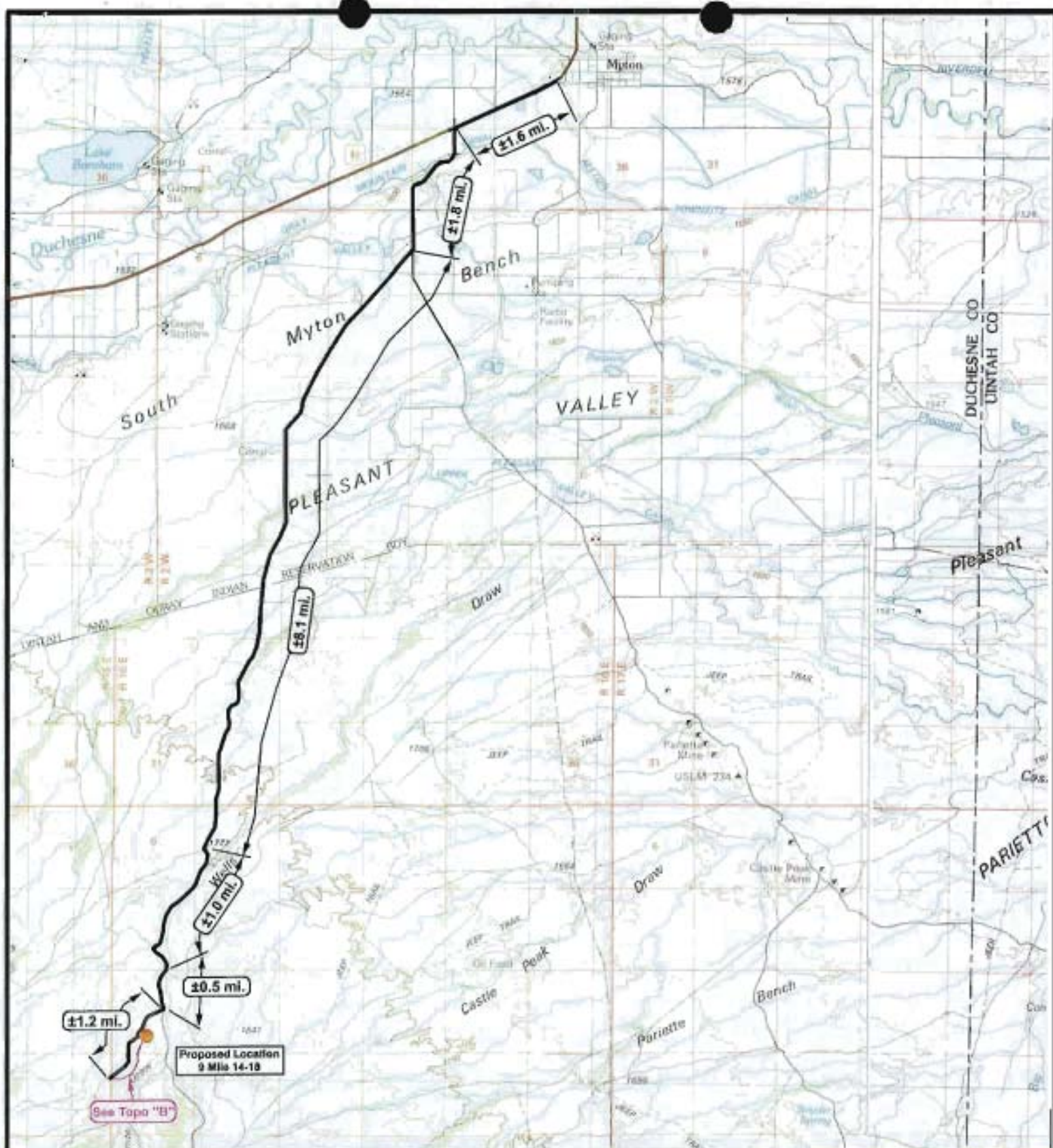
DRAWN BY: F.T.M.

DATE: 11-22-05

**Tri State**  
Land Surveying, Inc.

(435) 781-2501

180 NORTH VERNAL AVE. VERNAL, UTAH 84078



**NEWFIELD**  
Exploration Company

**9 Mile 14-18-9-16**  
**SEC. 18, T9S, R16E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
100 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000  
DRAWN BY: bgm  
DATE: 11-23-2005

**Legend**

— Existing Road  
— Proposed Access

TOPOGRAPHIC MAP

**"A"**



J-74826

U-30096

U-034217A

UTU-73087

UTU-73086

U-020255

U-020254

UTU-74390

UTU-79833

UTU-73080

UTU-64379

UTU

Proposed Location  
9 Mile 14-18

U-52018

±195'

±1.2 mi.

±0.5 mi.

Myton ±12.5 mi.

±1,315'

±2,360'

Legend

Existing Road

Proposed Access

TOPOGRAPHIC MAP

"B"

NEWFIELD  
Exploration Company

9 Mile 14-18-9-16  
SEC. 18, T9S, R16E, S.L.B.&M.

Tri-State  
Land Surveying Inc.  
(435) 781-2501  
180 North Verndal Ave. Vernal, Utah 84078

SCALE: 1" = 2000'

DRAWN BY: bgm

DATE: 11-23-2005



J-74826

U-30096

U-034217A

UTU-73087

UTU-73086

U-020255

U-020254

UTU-74390

UTU-79833

UTU-7350

UTU-64379

Proposed Location  
9 Mile 14-18

UTU-64379

U-52018

Tie-in to  
Existing  
Pipeline

21,315'

15-18

22,360'

2190'

NEWFIELD  
Exploration Company9 Mile 14-18-9-16  
SEC. 18, T9S, R16E, S.L.B.&M.*Tri-State  
Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2000'

DRAWN BY: hgm

DATE: 11-23-2005

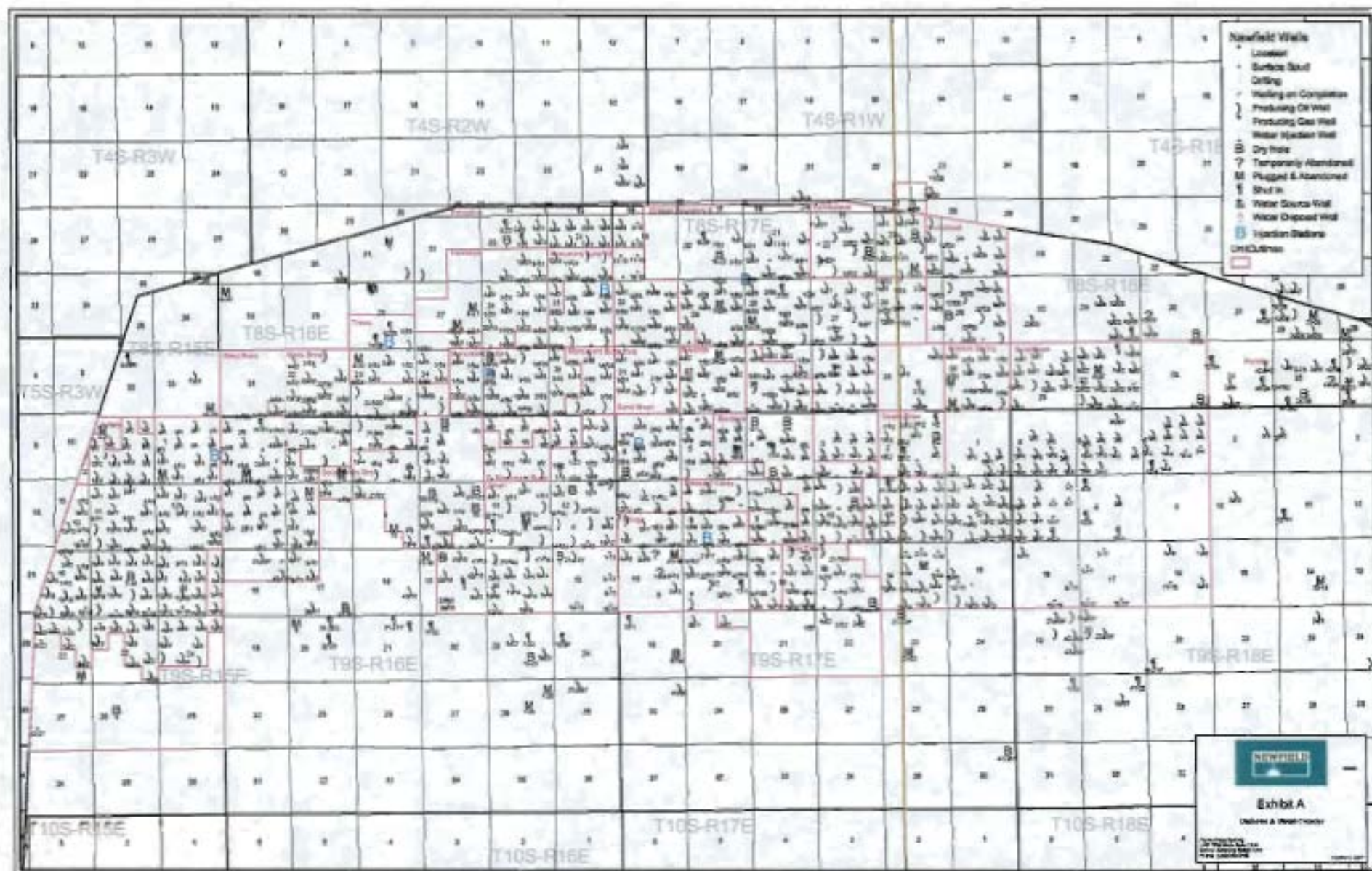
**Legend**

- Existing Road
- Proposed Access
- Proposed Gas Line

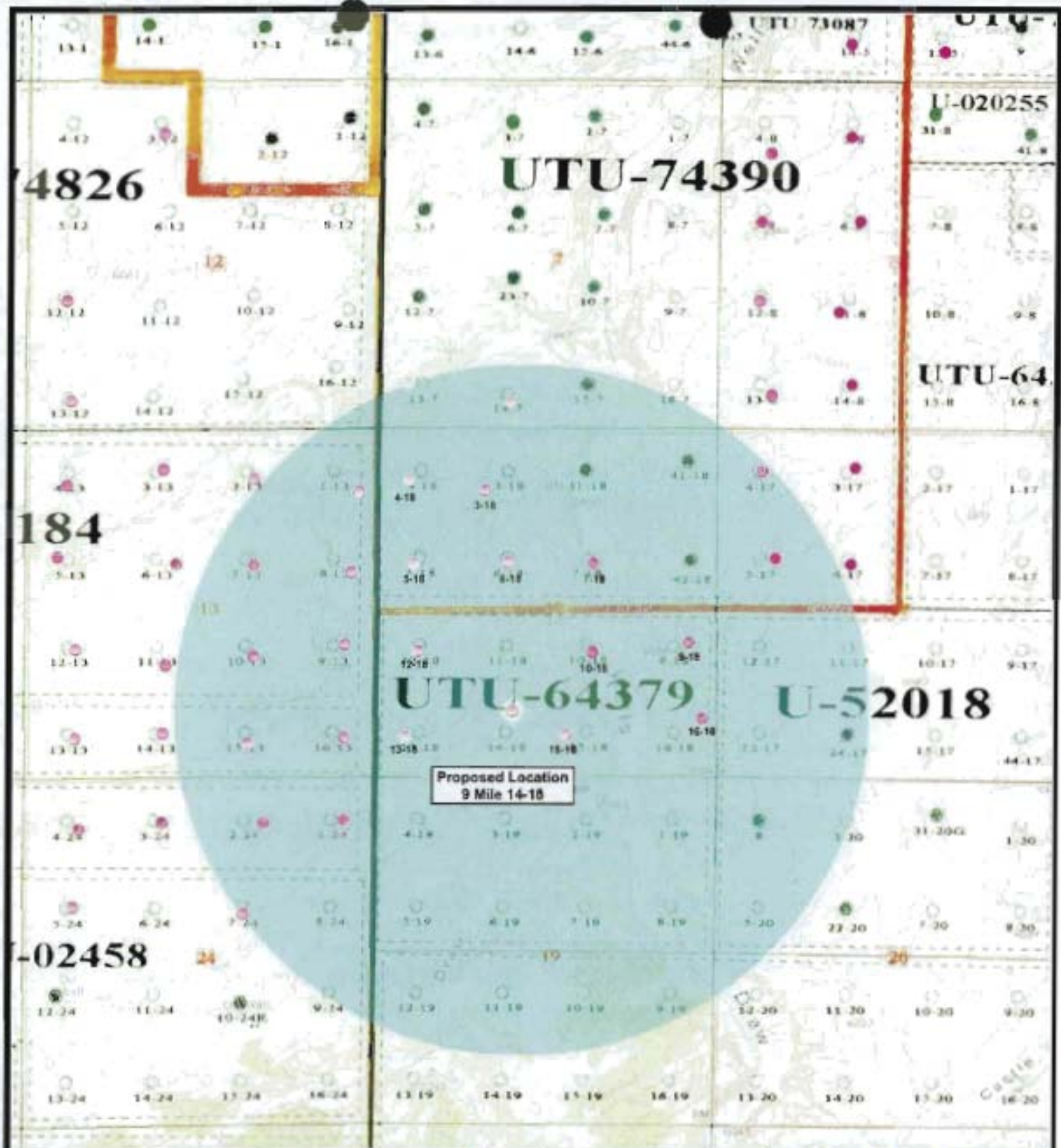
TOPOGRAPHIC MAP



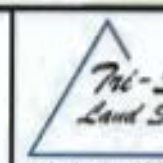
**"C"**









 <p><b>NEWFIELD</b> Exploration Company</p>		 <p><b>Tri-State</b> Land Surveying Inc. (435) 781-2501 180 North Vernal Ave. Vernal, Utah 84078</p>	<p><b>Legend</b></p> <ul style="list-style-type: none"> <li>Well Locations</li> <li>One-Mile Radius</li> </ul>
<p><b>9 Mile 14-18-9-16</b> <b>SEC. 18, T9S, R16E, S.L.B.&amp;M.</b></p>		<p>SCALE: 1" = 2,000' DRAWN BY: bgm DATE: 11-23-2005</p>	<p><b>Exhibit "B"</b></p>

## 2-M SYSTEM

Blowout Prevention Equipment Systems

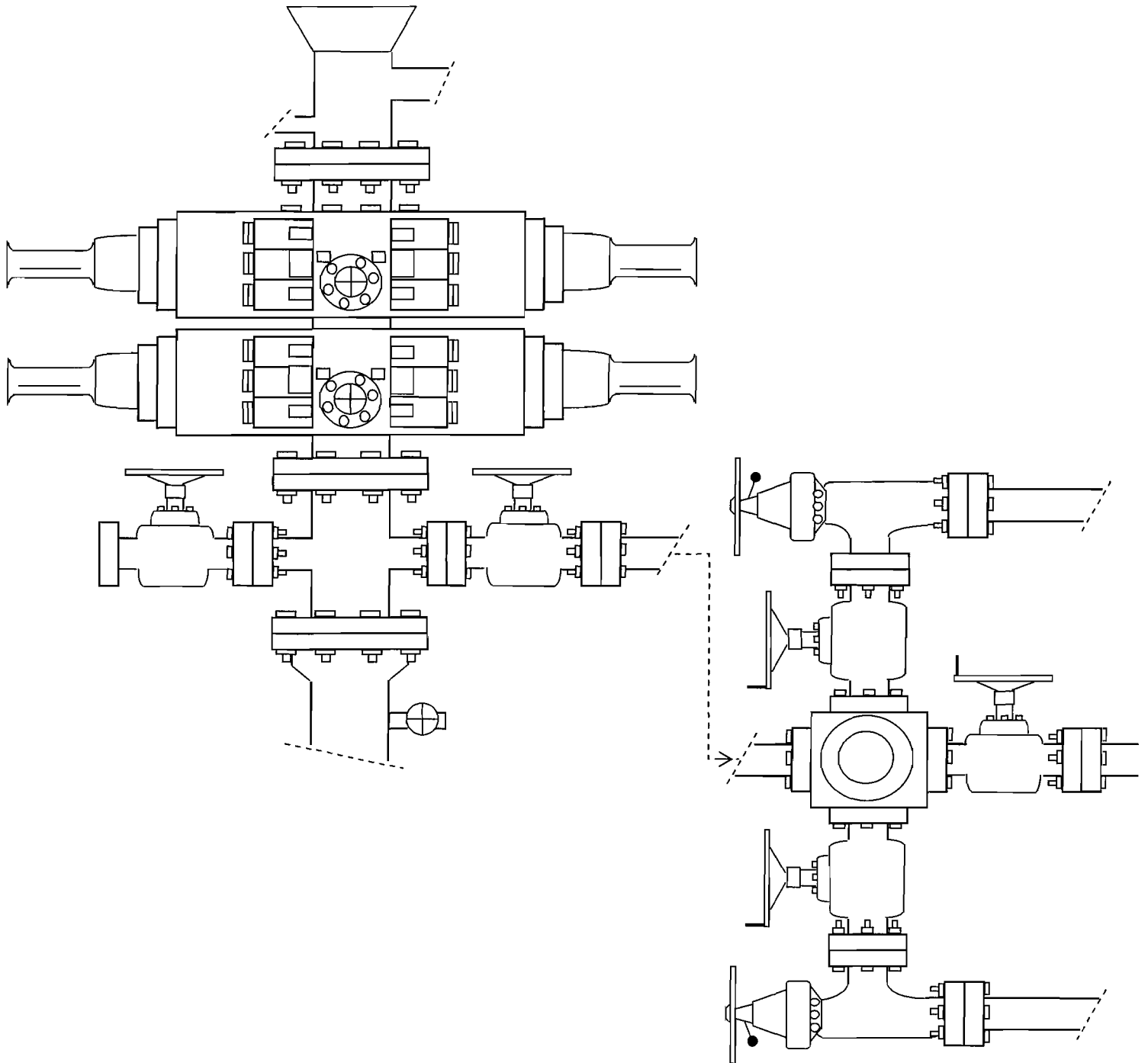


EXHIBIT C



Exhibit - D  
Page 1 of 2

CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S BLOCK PARCEL  
IN TOWNSHIP 9S, RANGE 16E, SECTION 18,  
DUCHESNE COUNTY, UTAH

By:

Kylie Lower-Eskelson  
and  
Keith R. Montgomery

Prepared For:

Bureau of Land Management  
Vernal Field Office

Prepared Under Contract With:

Newfield Exploration Company  
Rt. 3 Box 3630  
Myton, UT 84052

Prepared By:

Montgomery Archaeological Consultants, Inc.  
P.O. Box 147  
Moab, Utah 84532

MOAC Report No. 04-328

January 19, 2005

United States Department of Interior (FLPMA)  
Permit No. 04-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-04-MQ-1477b

**NEWFIELD PRODUCTION COMPANY**

**PALEONTOLOGICAL FIELD SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
DUCHESNE COUNTY, UTAH**

Section 3, T 9 S, R 17 E [NE 1/4 & NW 1/4, NE 1/4 and NE 1/4, NW 1/4  
& SW 1/4, NW 1/4, and NE 1/4 & NW 1/4, SE 1/4]; Section 18, T 9 S, R 16 E  
[excluding NE 1/4, NW 1/4, & SE 1/4, NE 1/4]; Section 15, T 9 S, R 17 E [SE 1/4/ NE 1/4];  
Section 18, T 9 S, R 17 E [western half of section plus SE 1/4 & SW 1/4, SE 1/4];  
Section 33, T 8 S, R 16 E [NW 1/4, NW 1/4 and SW 1/4, NE 1/4]

**REPORT OF SURVEY**

Prepared for:

**Newfield Production Company**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
May 11, 2005

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 12/08/2005

API NO. ASSIGNED: 43-013-33000

WELL NAME: FEDERAL 14-18-9-16

OPERATOR: NEWFIELD PRODUCTION ( N2695 )

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SESW 18 090S 160E

SURFACE: 1040 FSL 2047 FWL

BOTTOM: 1040 FSL 2047 FWL

DUCHESNE

MONUMENT BUTTE ( 105 )

INSPECT LOCATN BY: / /

**Tech Review**

**Initials**

**Date**

Engineering

Geology

Surface

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-64379

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

LATITUDE: 40.02659

LONGITUDE: -110.1631

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UT0056 )

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit  
(No. MUNICIPAL )

☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )

☒ Fee Surf Agreement (Y/N)

☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

     R649-2-3.

Unit \_\_\_\_\_

     R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

☒ R649-3-3. Exception

     Drilling Unit

Board Cause No: \_\_\_\_\_

Eff Date: \_\_\_\_\_

Siting: \_\_\_\_\_

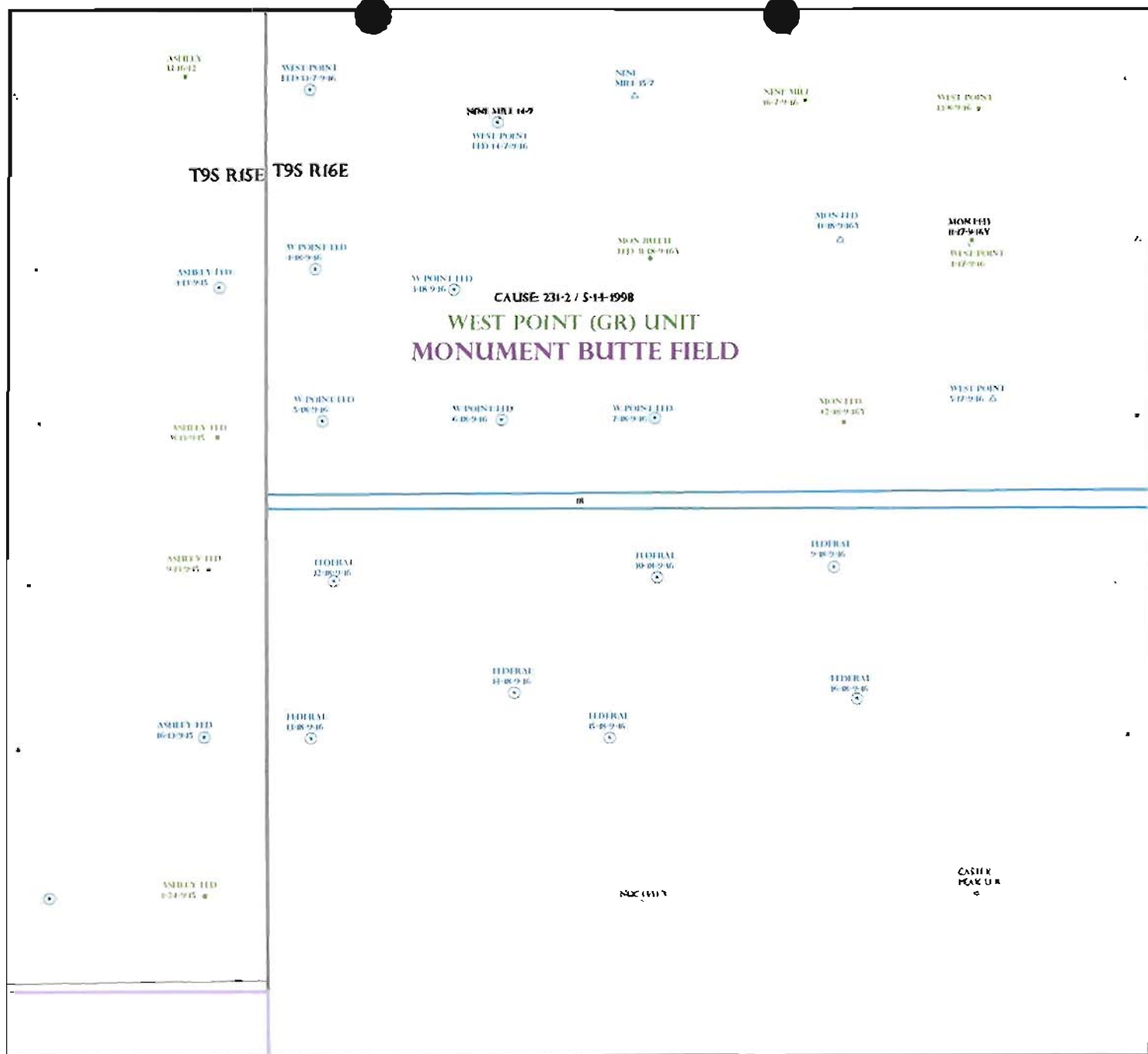
     R649-3-11. Directional Drill

COMMENTS:

*See, Separate files*

STIPULATIONS:

*1- Federal Approval  
2- Spacing Strip*



OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 18 T. 9S R. 16E

FIELD: MONUMENT BUTTE (1051)

COUNTY: DUCHESNE

SPACING: R649-3-3 / EXCEPTION LOCATION

**Field Status**

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

**Unit Status**

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

**Wells Status**

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING



PREPARED BY: DIANA WHITNEY  
DATE: 12-DECEMBER-2005



February 1, 2006

Utah Division of Oil, Gas & Mining  
P.O. Box 145801  
Attn: Diana Whitney  
Salt Lake City, Utah 84114-5801

Re: Exception Location: Federal 13-18-9-16  
✓ Federal 14-18-9-16, Federal 15-18-9-16  
Duschene Cty., Utah; Lease UTU-64379

Dear Ms. Whitney:

Pursuant to Rule R649-3-3 of the Oil & Gas Rules and Regulations of the State of Utah, Newfield Production Company, Inc. hereby requests exception locations for the drilling of the captioned wells. Rule R649-3-2 requires a well to be located in the center of a forty (40) acre quarter-quarter section, or a substantially equivalent lot or tract, with a tolerance of two hundred (200) feet in any direction from the center.

1) Fed 13-18-9-16; (SWSW Sec 18-T9S-R16E, U-64379). This location is found 57' west of the drilling window tolerance as stated in Rule R649-3-2. The attached plat depicts the proposed drillsite location and the deviation from the drilling window. The exception location is requested due to drainage.

2) Fed 14-18-9-16; (SESW Sec 18-T9S-R16E, U-64379) This location is found 179' north of the drilling window tolerance as state in Rule R649-3-2. The attached plat depicts the proposed drillsite location and the deviation from the drilling window. The exception location is requested due to the terrain.

3) Fed 15-18-9-16; (SESW Sec 18-T9S-R16E, U-64379). This location is found 190' west of the drilling window tolerance as state in Rule R649-3-2. The attached plat depicts the proposed drillsite location and the deviation from the drilling window. The exception location is requested due to the terrain.

RECEIVED  
FEB 06 2006

DIV. OF OIL, GAS & MINING

Page 2

The drillsite lease and all surrounding acreage within a four hundred sixty foot (460') radius of the proposed locations are owned by Newfield Production Company and Yates Petroleum Corporation. We have contacted this owner and their consent to this location is attached.

If you have any questions or need additional information please contact me at (303)-382-4448. Thank you for your assistance in this matter.

Sincerely,

NEWFIELD PRODUCTION COMPANY

A handwritten signature in black ink, appearing to read "Laurie Deseau". The signature is fluid and cursive, with a large initial "L" and a long, sweeping underline.

Laurie Deseau  
Properties Administrator

Exception Locations

Federal 13-18-9-16, UTU-64379

Federal 14-18-9-16, UTU-64379

Federal 15-18-9-16, UTU-64379

Please be advised that Yates Petroleum Corporation does not have an objection to the proposed locations of the aforementioned well.

By: *Amy Waldrop*  
*Senior Landman*  
Print Name and Title

Date: *1-27-06*



**State of Utah**

**Department of  
Natural Resources**

**MICHAEL R. STYLER**  
*Executive Director*

**Division of  
Oil, Gas & Mining**

**JOHN R. BAZA**  
*Division Director*

**JON M. HUNTSMAN, JR.**  
*Governor*

**GARY R. HERBERT**  
*Lieutenant Governor*

February 7, 2006

Newfield Production Company  
Rt. #3, Box 3630  
Myton, UT 84052

Re: Federal 14-18-9-16 Well, 1040' FSL, 2047' FWL, SE SW, Sec. 18, T. 9 South,  
R. 16 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33000.

Sincerely,

**Gil Hunt**  
Associate Director

pab  
Enclosures

cc: **Duchesne County Assessor**  
**Bureau of Land Management, Vernal District Office**



**Operator:** Newfield Production Company  
**Well Name & Number** Federal 14-18-9-16  
**API Number:** 43-013-33000  
**Lease:** UTU-64379

**Location:** SE SW                      **Sec.** 18                      **T.** 9 South                      **R.** 16 East

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.**

**5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**NEWFIELD PRODUCTION COMPANY**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**1040 FSL 2047 FWL SE/SW Section 18, T9S R16E**

5. Lease Designation and Serial No.

**UTU-64379**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**NA**

8. Well Name and No.

**FEDERAL 14-18-9-16**

9. API Well No.

**43-013-33000**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UT.**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Permit Extension**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

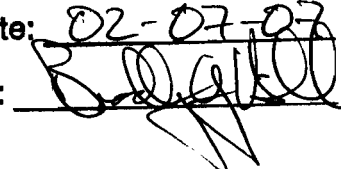
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Newfield Production Company requests to extend the Permit to Drill this well for one year. The original approval date was 2/7/06 (expiration 2/7/07).

This APD has not been approved yet by the BLM.

Approved by the  
Utah Division of  
Oil, Gas and Mining

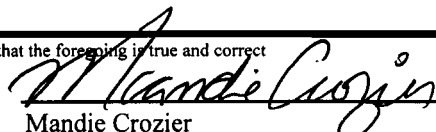
Date: **02-07-07**  
By: 

**FEB 06 2007**

**2-8-07 PM**

14. I hereby certify that the foregoing is true and correct

Signed

  
Mandie Crozier

Title

**Regulatory Specialist**

Date

**2/2/2007**

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: Utah DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 43-013-33000  
**Well Name:** Federal 14-18-9-16  
**Location:** SE/SW Section 18, T9S R16E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 2/7/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☐ NA

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

  
Signature

2/2/2007

Date

Title: Regulatory Specialist

**FEB 06 2007**

Representing: Newfield Production Company

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BLM VERNAL UTAH

Form 3160-3  
(September 2001)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

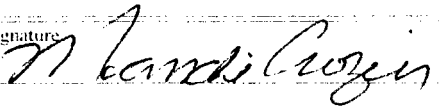
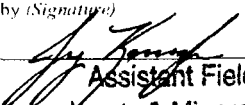
5. Lease Serial No. <b>UTU-64379</b>
6. If Indian, Allottee or Tribe Name <b>N/A</b>
7. If Unit or CA Agreement, Name and No. <b>N/A</b>
8. Lease Name and Well No. <b>Federal 14-18-9-16</b>
9. API Well No. <b>43-013-33000</b>
10. Field and Pool, or Exploratory <b>Monument Butte</b>
11. Sec., T., R., M., or BLM. and Survey or Area <b>SE/SW Sec. 18, T9S R16E</b>
12. County or Parish <b>Duchesne</b>
13. State <b>UT</b>

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		
2. Name of Operator <b>Newfield Production Company</b>		
3a. Address <b>Route #3 Box 3630, Myton UT 84052</b>	3b. Phone No. (include area code) <b>(435) 646-3721</b>	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>SE/SW 1040' FSL 2047' FWL</b> At proposed prod. zone		
14. Distance in miles and direction from nearest town or post office* <b>Approximatley 14.9 miles southwest of Myton, Utah</b>		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1600' f/ise, NA' f/unit	16. No. of Acres in lease <b>1626.36</b>	17. Spacing Unit dedicated to this well <b>40 Acres</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1266'	19. Proposed Depth <b>5910'</b>	20. BLM BIA Bond No. on file <b>UT0056</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>6117' GL</b>	22. Approximate date work will start* <b>1st Quarter 2006</b>	23. Estimated duration <b>Approximately seven (7) days from spudding to rig release.</b>

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SU PO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature 	Name (Printed/Typed) <b>Mandie Crozier</b>	Date <b>12/6/05</b>
Title <b>Regulatory Specialist</b>		
Approved by (Signature) 	Name (Printed/Typed) <b>Steve Kewels</b>	Date <b>3-8-2007</b>
Title <b>Assistant Field Manager Lands &amp; Mineral Resources</b>	Office <b>VERNAL FIELD OFFICE</b>	

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*Instructions in reverse

## CONDITIONS OF APPROVAL ATTACHED

NOTICE OF APPROVAL

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MAR 16 2007

DIV. OF OIL, GAS & MINING



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

**Company:** Newfield Production Company  
**Well No:** Federal 14-18-9-16  
**API No:** 43-013-33000

**Location:** SESW, Sec 18, T9S, R16E  
**Lease No:** UTU-64379  
**Agreement:** N/A

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	435-781-4490	435-828-4470
Petroleum Engineer:	Michael Lee	435-781-4432	435-828-7875
Petroleum Engineer:	James Ashley	435-781-4470	435-828-7874
Petroleum Engineer:	Ryan Angus	435-781-4430	
Supervisory Petroleum Technician:	Jamie Sparger	435-781-4502	435-828-3913
NRS/Enviro Scientist:	Paul Buhler	435-781-4475	435-828-4029
NRS/Enviro Scientist:	Karl Wright	435-781-4484	
NRS/Enviro Scientist:	Holly Villa	435-781-4404	
NRS/Enviro Scientist:	Melissa Hawk	435-781-4476	435-828-7381
NRS/Enviro Scientist:	Chuck MacDonald	435-781-4441	
NRS/Enviro Scientist:	Jannice Cutler	435-781-3400	
NRS/Enviro Scientist:	Michael Cutler	435-781-3401	
NRS/Enviro Scientist:	Anna Figueroa	435-781-3407	
NRS/Enviro Scientist:	Verlyn Pindell	435-781-3402	
NRS/Enviro Scientist:	Darren Williams	435-781-4447	
NRS/Enviro Scientist:	Nathan Packer	435-781-3405	

**After Hours Contact Number:** 435-781-4513      **Fax:** 435-781-4410

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a one-year period. An additional year extension may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify NRS/Enviro Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify NRS/Enviro Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supervisory Petroleum Technician)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings
BOP & Related Equipment Tests (Notify Supervisory Petroleum Technician)	- Twenty-Four (24) hours prior to initiating pressure tests
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

- All applicable local, state, and/or federal laws, regulations, and/or statutes must be complied with.
- Prior to construction the operator must consult with the U.S. Army Corps of Engineers regarding compliance with Section 404 of the Clean Water Act.
- In accordance with the Migratory Bird Treaty Act if a nest is found the operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer.
- Construction related traffic shall be restricted to approved routes. Cross-country vehicle travel shall not be allowed.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. may be needed to control the erosion. The operator shall submit a proposal to control erosion to the BLM.
- The reserve pit shall be double lined with felt and a 12 ml or greater liner.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of four inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- The liner is to be cut at the level of the cuttings or treated to prevent the reemergence of the pit liner and pit material to the surface or its interference with long-term successful re-vegetation. Any excess liner material removed from the pit is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure that animals do not ingest or become entrapped in pit fluids.
- Drill cuttings and mud shall remain in the reserve pit until DRY. The reserve pit must be free of oil and other liquid and solid wastes, allowed to dry, be pumped dry, or solidified in-situ prior to filling. The reserve pit shall not be "squeezed," (filled with soil while still containing fluids) or "cut" (puncturing the pit liner while still containing fluids to allow pit fluids to drain from the pit).
- Prevent fill and stock piles from entering drainages.

**CULTURAL AND PALEONTOLOGICAL RESOURCES** - Any cultural and/or paleontological resource (historic or prehistoric site or object or fossil) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery shall be made by the authorized officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder shall be responsible for the cost of evaluation and a decision as to proper mitigation measures shall be made by the authorized officer after consulting with the holder.

- The access road shall be crowned and ditched. Flat-bladed roads are NOT allowed.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.
- Following well plugging and abandonment, the location, access roads, pipelines, and other facilities shall be reclaimed. All disturbed surfaces shall be reshaped to approximate the original contour; the top soil respread over the surface; and, the surface revegetated. The surface of approved staging areas where construction activities did not occur may require disking or ripping and reseeding.
- Noxious weeds and any undesirable plants, as determined by the BLM, shall be controlled by the operator. The operator shall submit a pesticide use proposal to control weeds if they develop on the location or access road.
- Trees must be removed from the location must be piled separately off location and saved for final reclamation purposes.

#### INTERIM RECLAMATION

- Where possible, strip six inches of topsoil from the location as shown on the cut sheet. After the well is completed, the topsoil shall be spread and re-contoured on the location and immediately seeded with the seed mix below. Topsoil shall not be piled deeper than 2 feet.

##### Interim Reclamation Seed Mix for location:

Crested wheatgrass	<i>Agropyron cristatum</i>	4 lbs/acre
Per Live Seed Total		4 lbs/acre

- Certified weed free seed and straw shall be used for final and interim reclamation. The operator shall submit a receipt with certification for the seed and any straw used on location.
- The topsoil from the reserve pit should be stripped and piled separately near the reserve pit. When the reserve pit is closed it should be re-contoured, then the area should be seeded in the same manner as the topsoil.
- No drilling or construction from April 1 through July 15 to protect nesting Prairie Falcons. Sage Grouse Lek Nest Area—No surface use is allowed within the lek nesting areas March 1 through June 30. No drilling or construction from February 1 through July 15 to protect nesting Golden Eagles. All production facilities shall be painted Olive Drab. 6" and 4" surface poly gas lines.

#### General Surface COA

**Operator shall notify any active Gilsonite mining operation within 2 miles of the location 48 hours prior to any blasting during construction for this well.**

## **DOWNHOLE CONDITIONS OF APPROVAL**

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

- The operator's proposed production casing of 5.5" 17 #J-55 LT&C (straight string) set at a depth of 8500' does 'not' meet the regulatory standards for a collapse design coefficient greater than 1.12(depth TD 8500 ft, mud weight 10.5 g) and is therefore deficient.
- The operator is required to upgrade the production casing up to an appropriate API rated grade of production casing which will meet or exceed the regulatory standards.

### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.
- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- **Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.**
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The lessee/operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled and analyzed (a copy of the analyses to be submitted to the BLM Field Office in Vernal, Utah).



- All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.
- The lessee/operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, etc.) to Peter Sokolosky or another geologist of the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- All shows of fresh water and minerals shall be reported and protected. A sample shall be taken of any water flows and a water analysis furnished the BLM, Vernal Field Office. All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM, Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM, Vernal Field Office shall be obtained and notification given before resumption of operations.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- Any change in the program shall be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) shall be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.
- Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- A cement bond log (CBL) will be run from the production casing shoe to the surface casing shoe and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease shall have prior written approval from the BLM, Vernal Field Office.
- All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM, Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- This APD is approved subject to the requirement that, should the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and / or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

## DIVISION OF OIL, GAS AND MINING

### ***SPUDDING INFORMATION***

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: FEDERAL 14-18-9-16

Api No: 43-013-33000 Lease Type: FEDERAL

Section 18 Township 09S Range 16E County DUCHESNE

Drilling Contractor NDSI RIG # NS#1

### **SPUDDED:**

Date 09/17/07

Time 9:00 AM

How DRY

***Drilling will Commence:*** \_\_\_\_\_

Reported by DELL RAY

Telephone # (435) 828-6110

Date 09/17/07 Signed CHD

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include are code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1040 FSL 2047 FWL

SESW Section 18 T9S R16E

5. Lease Serial No.

USA UTU-64379

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

8. Well Name and No.

FEDERAL 14-18-9-16

9. API Well No.

4301333000

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Notice _____
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

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On 9/17/07 MIRU NDSI NS#1. Spud well @ 9:00am. Drill 320' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 321.47' On 9/19/07 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 7 bbls cement to pit. WOC.

RECEIVED

SEP 21 2007

DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Don Bastian

Signature

*Don Bastian*

Title

Drilling Foreman

Date

09/20/2007

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 321.47

LAST CASING 8 5/8" SET AT 321.47'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 320' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR NewField Production Company  
 WELL Federal 14-18-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI NS #1

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION		WT / FT	GRD	THREAD	CONDT	LENGTH	
		Shoe Joint 41.48'							
		WHI - 92 csg head				8rd	A	0.95	
7	8 5/8"	Maverick ST&C csg		24#	J-55	8rd	A	309.62	
		GUIDE shoe				8rd	A	0.9	
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING LESS CUT OFF PIECE PLUS DATUM TO T/CUT OFF CSG CASING SET DEPTH  } COMPARE				311.47	
TOTAL LENGTH OF STRING		311.47	7					2	
LESS NON CSG. ITEMS		1.85						12	
PLUS FULL JTS. LEFT OUT		0						321.47	
TOTAL		309.62	7						
TOTAL CSG. DEL. (W/O THRDS)		309.62	7						
TIMING		1ST STAGE							
BEGIN RUN CSG.		Spud	9/17/2007	9:00AM	GOOD CIRC THRU JOB				Yes
CSG. IN HOLE			9/17/2007	3:30 PM	Bbls CMT CIRC TO SURFACE				7
BEGIN CIRC			9/19/2007	2:03 PM	RECIPROCATED PIPE FOR				THRU FT STROKE
BEGIN PUMP CMT			9/19/2007	2:15 PM					N/A
BEGIN DSPL. CMT			9/19/2007	2:29 PM	BUMPED PLUG TO				105 PSI
PLUG DOWN			9/19/2007	2:36 PM					
CEMENT USED		CEMENT COMPANY- B. J.							
STAGE	# SX	CEMENT TYPE & ADDITIVES							
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield							
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING						
Centralizers - Middle first, top second & third for 3									

COMPANY REPRESENTATIVE Don Bastian DATE 9/20/2007

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR: **NEWFIELD PRODUCTION COMPANY**  
ADDRESS: **RT. 3 BOX 3830**  
**MYTON, UT 84052**

OPERATOR ACCT. NO. **N2695**

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG			
A	99999	16401	4301333000	FEDERAL 14-18-9-16	SESW	18	9S	16E	DUCHESNE	9/17/2007	10/17/07
WELL 1 COMMENTS: GRRV											
A	99999	16402	4301333702	HANCOCK 6-20-4-1	SENW	20	4S	1W	DUCHESNE	9/22/2007	10/17/07
GRRV											
A	99999	16403	4301333065	FEDERAL 4-19-9-16	NWNW	19	9S	16E	DUCHESNE	9/21/2007	10/17/07
GRRV											
B	99999	12417	4301333286	LONE TREE FED 9-21-9-17	NESE	21	9S	17E	DUCHESNE	9/25/2007	10/17/07
GRRV											
A	99999	16404	4301333158	FEDERAL 7-19-9-16	SWNE	19	9S	16E	DUCHESNE	9/26/2007	10/17/07
WELL 5 COMMENTS: GRRV											
B	99999	14844	4304735848	FEDERAL 6-1-9-17	SENW	1	9S	17E	UINTAH	9/26/2007	10/17/07
WELL 5 COMMENTS: GRRV											

ACTION CODES (See instructions on back of form)  
A - new entity for new well (single well only)  
B - well to existing entity (group or unit well)  
C - from one existing entity to another existing entity  
D - well from one existing entity to a new entity  
E - other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Signature Jennifer Park Jennifer Park  
Production Clerk  
09/27/07  
Date

DIV. OF OIL, GAS & MINING

SEP 27 2007

RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1040 FSL 2047 FWL

SESW Section 18 T9S R16E

5. Lease Serial No.

USA UTU-64379

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

8. Well Name and No.

FEDERAL 14-18-9-16

9. API Well No.

4301333000

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Notice
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

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I hereby certify that the foregoing is true and correct (Printed/ Typed)

Don Bastian

Signature

Title

Drilling Foreman

Date

09/20/2007

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

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(Instructions on reverse)

**RECEIVED**

OCT 24 2007

DIV. OF OIL, GAS & MINING



# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 321.47

LAST CASING 8 5/8" SET AT 321.47'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 320' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR NewField Production Company  
 WELL Federal 14-18-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI NS #1

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
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		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	309.62
		<b>GUIDE</b> shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			311.47
TOTAL LENGTH OF STRING		311.47	7	LESS CUT OFF PIECE			2
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH			<b>321.47</b>
TOTAL		309.62	7	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		309.62	7				
TIMING		1ST STAGE					
BEGIN RUN CSG.		Spud 9/17/2007	9:00AM	GOOD CIRC THRU JOB <u>Yes</u>			
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CEMENT USED		CEMENT COMPANY- B. J.	
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CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING	
Centralizers - Middle first, top second & third for 3			

COMPANY REPRESENTATIVE Don Bastian DATE 9/20/2007

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

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5. Lease Serial No.

USA UTU-64379

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

8. Well Name and No.

FEDERAL 14-18-9-16

9. API Well No.

4301333000

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

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3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

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4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1040 FSL 2047 FWL

SESW Section 18 T9S R16E

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<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

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Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

I hereby certify that the foregoing is true and  
correct (Printed/ Typed)

Mandie Crozier

Title

Regulatory Specialist

Signature

Date

10/29/2007

Approved by

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Title

Date

Office

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(Instructions on reverse)

RECEIVED

NOV 05 2007

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
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SESW Section 18 T9S R16E

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FEDERAL 14-18-9-16

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TYPE OF SUBMISSION	TYPE OF ACTION			
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	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Weekly Status Report
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 9/27/07 MIRU NDSI Rig # 1. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 280'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 5975'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 155 jt's of 5.5 J-55, 15.5# csgn. Set @ 5956' / KB. Cement with 300 sks cement mixed @ 11.0 ppg & 3.43 yld. Then 400 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 10 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 90,000 #'s tension. Release rig @ 2:00 AM on 10/3/07.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Justin Crump

Signature

Title

Drilling Foreman

Date

11/04/2007

THIS SPACE FOR FEDERAL OR STATE OFFICIAL USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

RECEIVED

NOV 07 2007

DIV. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 5956.79

Flt cllr @ 5899.5

LAST CASING 8 5/8" SET AT 321'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING 12'  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 5975' Loggers 5957'  
 HOLE SIZE 7 7/8"

OPERATOR Newfield Production Company  
 WELL Federal 14-19-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI # 1

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					14
		Short jt 5.95' 3961'					
154	5 1/2"	ETC LT & C casing	15.5#	J-55	8rd	A	5904.96
		Float collar					0.6
1	5 1/2"	ETC LT&C csg	15.5#	J-55	8rd	A	38.58
		<b>GUIDE</b> shoe			8rd	A	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			5958.79
TOTAL LENGTH OF STRING		5958.79	155	LESS CUT OFF PIECE			14
LESS NON CSG. ITEMS		15.25		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		77.78	2	CASING SET DEPTH			<b>5956.79</b>

TOTAL	6021.32	157	} COMPARE		
TOTAL CSG. DEL. (W/O THRDS)	6021.32	157			
TIMING	1ST STAGE	2nd STAGE			
BEGIN RUN CSG.	10/2/2007	2:30 PM	GOOD CIRC THRU JOB	YES	
CSG. IN HOLE	10/2/2007	7:00 PM	Bbls CMT CIRC TO SURFACE	10 bbls	
BEGIN CIRC	10/2/2007	7:00 PM	RECIPROCATED PIPE FOR	THRUSTROKE	NA
BEGIN PUMP CMT	10/2/2007	9:08 PM	DID BACK PRES. VALVE HOLD ?	Yes	
BEGIN DSPL. CMT	10/2/2007	10:04 PM	BUMPED PLUG TO	2126	PSI
PLUG DOWN	10/2/2007	10:27 PM			

CEMENT USED		CEMENT COMPANY- B. J.
STAGE	# SX	CEMENT TYPE & ADDITIVES
1	300	Premlite II w/ 10% gel + 3 % KCL, 5#s /sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake
		mixed @ 11.0 ppg W / 3.43 cf/sk yield
2	400	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.		

COMPANY REPRESENTATIVE Justin Crum DATE 10/2/2007

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL:		OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-64379
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY				6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR:		PHONE NUMBER		7. UNIT or CA AGREEMENT NAME:
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		435.646.3721		8. WELL NAME and NUMBER: FEDERAL 14-18-9-16
4. LOCATION OF WELL:				9. API NUMBER: 4301333000
FOOTAGES AT SURFACE: 1040 FSL 2047 FWL				10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SESW, 18, T9S, R16E				COUNTY: DUCHESNE
				STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: 11/15/2007	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 10/26/07, attached is a daily completion status report.

NAME (PLEASE PRINT) Jentti Park TITLE Production Clerk  
SIGNATURE DATE 11/15/2007

(This space for State use only)

RECEIVED  
DEC 03 2007  
DIV. OF OIL, GAS & MINING

**Daily Activity Report**

Format For Sundry

**FEDERAL 14-18-9-16****8/1/2007 To 12/30/2007****10/15/2007 Day: 1****Completion**

Rigless on 10/14/2007 - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5881' & cement top @ 114'. Perforate stage #1. LODC sds @ 5308- 30' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 88 shots. 140 BWTR. SIFN.

**10/18/2007 Day: 2****Completion**

Rigless on 10/17/2007 - RU BJ Services. 0 psi on well. Frac LODC sds w/ 100,563#'s of 20/40 sand in 746 bbls of Lightning 17 fluid. Broke @ 2819 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1698 psi @ ave rate of 23 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 2105 psi. Leave pressure on well. 886 BWTR. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 9' perf gun. Set plug @ 5260'. Perforate A3 sds @ 5146- 55' w/ 3-1/8" Slick Guns w/ 4 spf for total of 36 shots. RU BJ Services. 1468 psi on well. Frac A3 sds w/ 60,790#'s of 20/40 sand in 549 bbls of Lightning 17 fluid. Broke @ 2752 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2146 psi @ ave rate of 23 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 2344 psi. Leave pressure on well. 1435 BWTR. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 4' & 7' perf gun. Set plug @ 5040'. Perforate B2 sds @ 4937-41', B.5 sds @ 4878- 85' w/ 3-1/8" Slick Guns w/ 4 spf for total of 44 shots. RU BJ Services. 1950 psi on well. Frac B2 & B.5 sds w/ 24,732#'s of 20/40 sand in 353 bbls of Lightning 17 fluid. Broke @ 2679 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2039 psi @ ave rate of 23 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 1949 psi. Leave pressure on well. 1788 BWTR. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 16' perf gun. Set plug @ 4850'. Perforate C sds @ 4790-4806' w/ 3-1/8" Slick Guns w/ 4 spf for total of 64 shots. RU BJ Services. 1625 psi on well. Frac C sds w/ 95,455#'s of 20/40 sand in 728 bbls of Lightning 17 fluid. Broke @ 3846 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1858 psi @ ave rate of 23 BPM. Pumped 504 gals of 15% HCL in flush for Stage #5. ISIP 2128 psi. Leave pressure on well. 2516 BWTR. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 8' & 6' perf gun. Set plug @ 4760'. Perforate D2 sds @ 4708-4716', D1 sds @ 4660- 4666' w/ 3-1/8" Slick Guns w/ 4 spf for total of 56 shots. RU BJ Services. 1800 psi on well. Frac D1 & D2 sds w/ 70,174#'s of 20/40 sand in bbls of Lightning 17 fluid. Broke @ 3839 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2111 psi @ ave rate of 23 BPM. Pumped 504 gals of 15% HCL in flush for Stage #6. ISIP 2427 psi. Leave pressure on well. 3087 BWTR. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug 12' perf gun. Set plug @ 4240'. Perforate GB4 sds @ 4128-40' w/ 3-1/8" Slick Guns w/ 4 spf for total of 48 shots. RU BJ Services. 2072 psi on well. Frac GB4 sds w/ 88,281#'s of 20/40 sand in 658 bbls of Lightning 17 fluid. Broke @ 3950 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/

ave pressure of 1695 psi @ ave rate of 23 BPM. ISIP 1814 psi. Begin immediate flowback on 12/64 choke @ 1 BPM. Flowed for 7 hrs & died. Rec. 395 BTF. SIWFN w/ 3350 BWTR.

10/19/2007 Day: 3

Completion

Western #4 on 10/18/2007 - MIRU Western #4. 210 psi on well. Bleed off pressure. Flowed back 15 bbls. ND Cameron BOP & 5M WH. NU 3M WH & Shaffer BOP. SIWFN w/ 3335 BWTR.

10/20/2007 Day: 4

Completion

Western #4 on 10/19/2007 - 120 psi on well. Bleed off pressure. Talley, PU & RIH w/ 4 3/4" chomp bit, Bit sub & 2 7/8" J-55 tbg. Tagged sand @ 4116'. RU Nabors power swivel. Drill out plugs & circulate sand. Sand @ 4116', Plug @ 4240' (Drill out in 20 mins). Plug @ 4760', No sand (Drilled out in 15 mins.). Sand @ 4772', Plug @ 4850' (Drill out in 20 mins). Sand @ 4979', Plug @ 5040' (Drill out in 17 mins). Sand @ 5245', Plug @ 5260' (Drilled out in 20 mins). Circulate well clean w/ EOT @ 5271'. Gained a total of 65 BTF while drilling. SIWFN w/ 3270 BWTR.

10/23/2007 Day: 5

Completion

Western #4 on 10/22/2007 - 100 psi on to tbg, 130 psi on csg. Bleed off pressure. Pumped 70 BW down tbg to kill well. Con't TIH w/ tbg. Tagged sand @ 5776'. RU Nabors power swivel. Clean out to PBDT @ 5917'. LD 2- jts. EOT @ 5856'. RU swab equipment. IFL @ sfc. Made 9 runs. Rec. 80 BTF. FFL @ 700', Trace oil & sand. Down for rig repairs (Lost bearings in right angle drive). SIWFN w/ 3175 BWTR.

10/26/2007 Day: 6

Completion

Western #4 on 10/25/2007 - Finish rig repairs. Bleed pressure off well. Rec est 15 BTF. Resume swabbing well for cleanup. IFL @ sfc. Made 6 swb runs rec 75 BTF W/ tr oil, light gas & no sd. FFL @ 700'. TIH W/ tbg. Tag sd @ 5915' (2' new fill). C/O sd to PBDT @ 5917'. Circ hole clean. Lost 25 BW & rec tr oil. LD excess tbg. TOH W/ tbg to 1870'. SIFN W/ est 3125 BWTR.

10/27/2007 Day: 7

Completion

Western #4 on 10/26/2007 - Con't TOH W/ tbg f/ 1870'--LD bit. TIH W/ BHA & production tbg as follows: 2 7/8 NC, 2 jts tbg, SN, 2 jts tbg, new CDI 5 1/2" TA (45K) & 169 jts 2 7/8 8rd 6.5# J-55 tbg. ND BOP. Set TA @ 5268' W/ SN @ 5332' & EOT @ 5395'. Land tbg W/ 16,000# tension. NU wellhead. RU HO trk & flush tbg W/ 60 BW @ 250°F (returned same). PU & TIH W/ pump and "B" grade rod string as follows: new CDI 2 1/2" X 1 1/2" X 15.5' RHAC pump, 6-1 1/2" weight rods, 20-3/4" scraped rods, 86-3/4" plain rods, 100-3/4" scraped rods, 1-4' & 1-2' X 3/4" pony rods and 1 1/2" X 26' polished rod. Seat pump & RU pumping unit. W/ tbg full, pressure test tbg & pump to 200 psi. Stroke pump up W/ unit to 800 psi. Good pump action. RDMOSU. Est 3125 BWTR. Place well on production @ 4:30 PM 10/26/2007 W/ 102" SL @ 5 SPM. FINAL REPORT!!

Pertinent Files: Go to File List

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

## 1a. TYPE OF WORK

OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_

## 1b. TYPE OF WELL

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR. ☐ Other \_\_\_\_\_

## 2. NAME OF OPERATOR

Newfield Exploration Company

## 3. ADDRESS AND TELEPHONE NO.

1401 17th St. Suite 1000 Denver, CO 80202

## 4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*

At Surface 1040' FSL &amp; 2047' FWL (SE/SW) Sec. 18, T9S, R16E

At top prod. Interval reported below

At total depth

14. API NO.

43-013-33000

DATE ISSUED

02/07/07

12. COUNTY OR PARISH

Duchesne

13. STATE

UT

## 15. DATE SPUDDED

09/17/07

## 16. DATE T.D. REACHED

10/01/07

## 17. DATE COMPL. (Ready to prod.)

10/26/07

## 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

6117' GL

6129' KB

## 19. ELEV. CASINGHEAD

## 20. TOTAL DEPTH, MD &amp; TVD

5975'

## 21. PLUG BACK T.D., MD &amp; TVD

5917'

## 22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

-----&gt;

## ROTARY TOOLS

X

## CABLE TOOLS

## 24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*

Green River 4128'-5330'

## 25. WAS DIRECTIONAL SURVEY MADE

No

## 26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log

## 27. WAS WELL CORED

No

## 28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	321'	12-1/4"	To surface with 160 sx Class "G" cmt	
5-1/2" - J-55	15.5#	5957'	7-7/8"	300 sx Premilite II and 400 sx 50/50 Poz	

## 29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @	TA @
						5395'	5268'

## 31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	SPF/NUMBER	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
(LODC) 5308'-5330'	.49"	4/88	5308'-5330'
(A3) 5146'-5155'	.49"	4/36	5146'-5155'
(B2 & .5) 4937'-4941', 4878'-4885'	.43"	4/44	4878'-4941'
(C) 4790'-4806'	.49"	4/64	4790'-4806'
(D2 & 1) 4708'-4716', 4660'-4666'	.49"	4/56	4660'-4716'
(GB4) 4128'-4140'	.49"	4/48	4128'-4140'

## 33.\* PRODUCTION

DATE FIRST PRODUCTION 10/26/07		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) 2-1/2" x 1-1/2" x 10' x 14' RHAC SM Plunger Pump						WELL STATUS (Producing or shut-in) PRODUCING	
DATE OF TEST 10 day ave		HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD ----->	OIL--BBL. 95	GAS--MCF. 42	WATER--BBL. 39		GAS-OIL RATIO 442
FLOW. TUBING PRESS.		CASING PRESSURE	CALCULATED 24-HOUR RATE ----->	OIL-BBL.	GAS--MCF.	WATER--BBL.		OIL GRAVITY-API (CORR.) <div>RECEIVED</div>	

## 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold &amp; Used for Fuel

TEST WITNESSED BY

DEC 17 2007

## 35. LIST OF ATTACHMENTS

DIV. OF OIL, GAS &amp; MINING

## 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

Production Clerk

DATE

11/20/2007

Jentri Park

JP

\*(See Instructions and Spaces for Additional Data on Reverse Side)



37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
			Well Name Federal 14-18-9-16	Garden Gulch Mkr	3661'	
				Garden Gulch 1	3867'	
				Garden Gulch 2	3972'	
				Point 3 Mkr	4224'	
				X Mkr	4488'	
				Y-Mkr	4521'	
				Douglas Creek Mkr	4630'	
				BiCarbonate Mkr	4840'	
				B Limestone Mkr	4962'	
				Castle Peak	5532'	
				Basal Carbonate	NDE	
				Total Depth (LOGGERS)	5957'	

# NEWFIELD



Well Name: Federal 14-18-9-16  
 LOCATION: S18, T9S, R16E  
 COUNTY/STATE: Duchesne  
 API: 43-013-33000

Spud Date: 9-17-07  
 TD: 5975'  
 CSG: 10-2-07  
 POP: 10-26-07

DATE	HRS	Oil (bbls)	Water (bbls)	Recovered Water (bbls)	Gas (mcf)	Casing Pressure (psi)	SPM	Comments
10/26/2007				3125				POP @ 4:30 P.M. w/ 102" SL @ 5 SPM. 3125 Total water to recover.
10/27/2007	16	58	76	3049	3	0	6	
10/28/2007	24	0	123	2926	0	0	6	
10/29/2007	24	0	133	2793	10	45	6	
10/30/2007	24	46	84	2709	20	35	6	
10/31/2007	24	61	71	2638	25	30	6	
11/1/2007	24	60	55	2583	25	40	5 1/2	
11/2/2007	24	68	43	2540	34	40	5 1/2	
11/3/2007	24	0	85	2455	32	40	5 1/2	Drained 40 bbls from T1 to T3
11/4/2007	24	55	58	2397	31	70	5 1/2	
11/5/2007	24	83	27	2370	39	65	5 1/2	
11/6/2007	24	80	43	2327	15	47	5 1/2	
11/7/2007	24	16	45	2282	16	50	5 1/2	
11/8/2007	24	65	25	2257	33	55	5 1/2	
11/9/2007	24	199	37	2220	22	75	5 1/2	Transferred 111 bbls oil from T3 to T1
11/10/2007	24	143	43	2177	33	125	5 1/2	
11/11/2007	9	30	51	2126	0	300	5 1/2	Clutched for oil sale
11/12/2007	24	23	33	2093	20	165	5 1/2	
11/13/2007	24	196	30	2063	44	400	5 1/2	
11/14/2007	17	60	28	2035	49	200	5 1/2	Clutched for oil sale
11/15/2007	24	122	41	1994	33	280	5 1/2	
11/16/2007	24	106	42	1952	83	210	5 1/2	
11/17/2007	24	120	52	1900	42	310	5 1/2	
11/18/2007	24	96	30	1870	77	250	5 1/2	
11/19/2007	24	101	32	1838	135	250	5 1/2	
11/20/2007	24	86	25	1813	138	180	5 1/2	
11/21/2007	24	23	25	1788	30	110	5 1/2	
11/22/2007	24	69	13	1775	30	280	5 1/2	
11/23/2007	24	73	18	1757	30	200	5 1/2	
11/24/2007	24	76	23	1734	45	140	5 1/2	
11/25/2007	24	86	21	1713	45	140	5 1/2	
11/26/2007	24	96	0	1713	71	180	5 1/2	FINAL
		<b>2297</b>	<b>1412</b>		<b>1210</b>			

71012

**NEWFIELD**



**Newfield Exploration Company**

1001 17th Street | Suite 2000

Denver, Colorado 80202

PH 303-893-0102 | FAX 303-893-0103

June 4, 2013

Mr. Mark Reinbold  
State of Utah  
Division of Oil, Gas and Mining  
1594 W North Temple  
Salt Lake City, Utah 84114-5801

RE: Permit Application for Water Injection Well  
Federal #14-18-9-16  
Monument Butte Field, Lease #UTU-64379  
Section 18-Township 9S-Range 16E  
Duchesne County, Utah

RECEIVED  
JUN 05 2013  
DIV. OF OIL, GAS & MINING

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Federal #14-18-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

Eric Sundberg  
Environmental Manager

**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**FEDERAL #14-18-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-64379**  
**JUNE 4, 2013**

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STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Newfield Production Company  
ADDRESS 1001 17th Street, Suite 2000  
Denver, Colorado 80202

Well Name and number: Federal #14-18-9-16  
Field or Unit name: Monument Butte (Green River) Lease No. UTU-64379  
Well Location: QQ SESW section 18 township 9S range 16E county Duchesne

Is this application for expansion of an existing project? . . . . . Yes ☒ No ☐

Will the proposed well be used for:                      Enhanced Recovery? . . . . . Yes ☒ No ☐  
   Disposal? . . . . . Yes ☐ No ☒  
   Storage? . . . . . Yes ☐ No ☒

Is this application for a new well to be drilled? . . . . . Yes ☐ No ☒

If this application is for an existing well,  
has a casing test been performed on the well? . . . . . Yes ☐ No ☒

Date of test: \_\_\_\_\_  
API number: 43-013-33000

Proposed injection interval:                      from 3972 to 5917  
Proposed maximum injection:                      rate 500 bpd pressure 1787 psig  
Proposed injection zone contains [x] oil, [ ] gas, and/or [ ] fresh water within 1/2  
mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should  
accompany this form.

List of Attachments: Attachments "A" through "H-1"

I certify that this report is true and complete to the best of my knowledge.

Name: Eric Sundberg Signature   
Title Environmental Manager Date \_\_\_\_\_  
Phone No. (303) 893-0102

(State use only)  
Application approved by \_\_\_\_\_ Title \_\_\_\_\_  
Approval Date \_\_\_\_\_

Comments:

# FEDERAL 14-18-9-16

Spud Date: 09/17/07  
Put on Production: 10/26/07  
GL: 6117' KB: 6129'

Initial Production: BOPD,  
MCFD, BWPD

## Proposed Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (309.62')  
DEPTH LANDED: 321.47' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 7 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 155 jts. (5943.54')  
DEPTH LANDED: 5956.79' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP: 114'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 169 jts (5256.4')  
TUBING ANCHOR: 5268.4' KB  
NO. OF JOINTS: 2 jts (60.80')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5332.0' KB  
NO. OF JOINTS: 2 jts (61.60')  
TOTAL STRING LENGTH: EOT @ 5396.' KB

### FRAC JOB

10/17/07	5308-5330'	<b>Frac LODOC sands as follows:</b> 100563# 20/40 sand in 746 bbls Lightning 17 frac fluid. Treated @ avg press of 1698 psi w/avg rate of 23 BPM. ISIP 2105 psi. Calc flush: 5306 gal. Actual flush: 4796 gal.
10/17/07	5146-5155'	<b>Frac A3 sands as follows:</b> 60790# 20/40 sand in 549 bbl Lightning 17 frac fluid. Treated @ avg press of 2146 psi w/avg rate of 23 BPM. ISIP 2344 psi. Calc flush: 5144 gal. Actual flush: 2344 gal.
10/17/07	4878-4941'	<b>Frac B2 &amp; B.5 sands as follows:</b> 24732# 20/40 sand in 353 bbls Lightning 17 frac fluid. Treated @ avg press of 2039 psi w/avg rate of 23 BPM. ISIP 1949 psi. Calc flush: 4876 gal. Actual flush: 4389 gal.
10/17/07	4790-4806'	<b>Frac C sands as follows:</b> 95455# 20/40 sand in 728 bbls Lightning 17 frac fluid. Treated @ avg press of 1858 psi w/avg rate of 23 BPM. ISIP 1858 psi. Calc flush: 4788 gal. Actual flush: 4305 gal.
10/17/07	4660-4716'	<b>Frac D1 &amp; D2 sands as follows:</b> 70174# 20/40 sand in 571 bbls Lightning 17 frac fluid. Treated @ avg press of 2111 psi w/avg rate of 23 BPM. ISIP 2427 psi. Calc flush: 4658 gal. Actual flush: 4154 gal.
10/17/07	4128-4140'	<b>Frac GB4 sands as follows:</b> 88281# 20/40 sand in 658 bbls Lightning 17 frac fluid. Treated @ avg press of 1695 psi w/avg rate of 23 BPM. ISIP 1814 psi. Calc flush: 4126 gal. Actual flush: 4032 gal.
6/28/08		Hole in tubing. Rod & tubing updated.
11/07/10		Pump change. Rod & Tubing updated
7/13/2011		Tubing leak. Rod & tubing updated.

Cement Top @ 114'

Anchor @ 4078'

4128-4140'

4660-4666'

4708-4716'

4790-4806'

4878-4785'

4937-4941'

5146-5155'

5308-5330'

PBTD @ 5917'

TD @ 5975'

### PERFORATION RECORD

10/15/07	5308-5330'	4 JSPF	88 holes
10/17/07	5146-5155'	4 JSPF	36 holes
10/17/07	4937-4941'	4 JSPF	16 holes
10/17/07	4878-4785'	4 JSPF	28 holes
10/17/07	4790-4806'	4 JSPF	64 holes
10/17/07	4708-4716'	4 JSPF	32 holes
10/17/07	4660-4666'	4 JSPF	24 holes
10/17/07	4128-4140'	4 JSPF	48 holes

**NEWFIELD**

**FEDERAL 14-18-9-16**

1040' FSL & 2047' FWL

SE/SW Section 18-T9S-R16E

Duchesne Co, Utah

API #43-013-33000; Lease # UTU-64379

## **WORK PROCEDURE FOR INJECTION CONVERSION**

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
3. Test casing and packer.
4. Rig down and move out.



**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS  
RULE R615-5-1**

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**
- 2. A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**

**2.1 The name and address of the operator of the project.**

Newfield Production Company  
1001 17<sup>th</sup> Street, Suite 2000  
Denver, Colorado 80202

**2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.**

See Attachment A.

**2.3 A full description of the particular operation for approval is requested.**

Approval is requested to convert the Federal #14-18-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.

**2.4 A description of the pools from which the identified wells are producing or have produced.**

The proposed injection well will inject into the Green River Formation.

**2.5 The names, description and depth of the pool or pools to be affected.**

The injection zone is in the Green River Formation. For the Federal #14-18-9-16 well, the proposed injection zone is from Garden Gulch to Castle Peak (3972' - 5917'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, which ever is shallower. The Garden Gulch Marker top is at 3640' and the TD is at 5975'.

**2.6 A copy of a log of a representative well completed in the pool.**

The referenced log for the Federal #14-18-9-16 is on file with the Utah Division of Oil, Gas and Mining.

- 2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

- 2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.**

See Attachment B.

- 2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.**

See Attachment C.

- 2.10 Any additional information the Board may determine is necessary to adequately review the petition.**

Newfield Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

- 4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.**

This proposed injection well is on a Federal lease (Lease #UTU-64379) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.

**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL,  
STORAGE AND ENHANCED RECOVERY WELLS  
SECTION V – RULE R615-5-2**

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

- 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachments A and B.

- 2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

All logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

- 2.4 Copies of logs already on file with the Division should be referenced, but need not be refiled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24# surface casing run to 321' KB, and 5-1/2", 15.5# casing run from surface to 5957' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

- 2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

- 2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.

**The proposed average and maximum injection pressures.**

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1787 psig.

- 2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.**

The minimum fracture gradient for the Federal #14-18-9-16, for existing perforations (4128' - 5330') calculates at 0.87 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1787 psig. We may add additional perforations between 3640' and 5975'. See Attachments G and G-1.

- 2.9 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.**

In the Federal #14-18-9-16, the proposed injection zone (3972' - 5917') is in the Garden Gulch to the Castle Peak of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

- 2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.**

See Attachments E through E-13.

Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

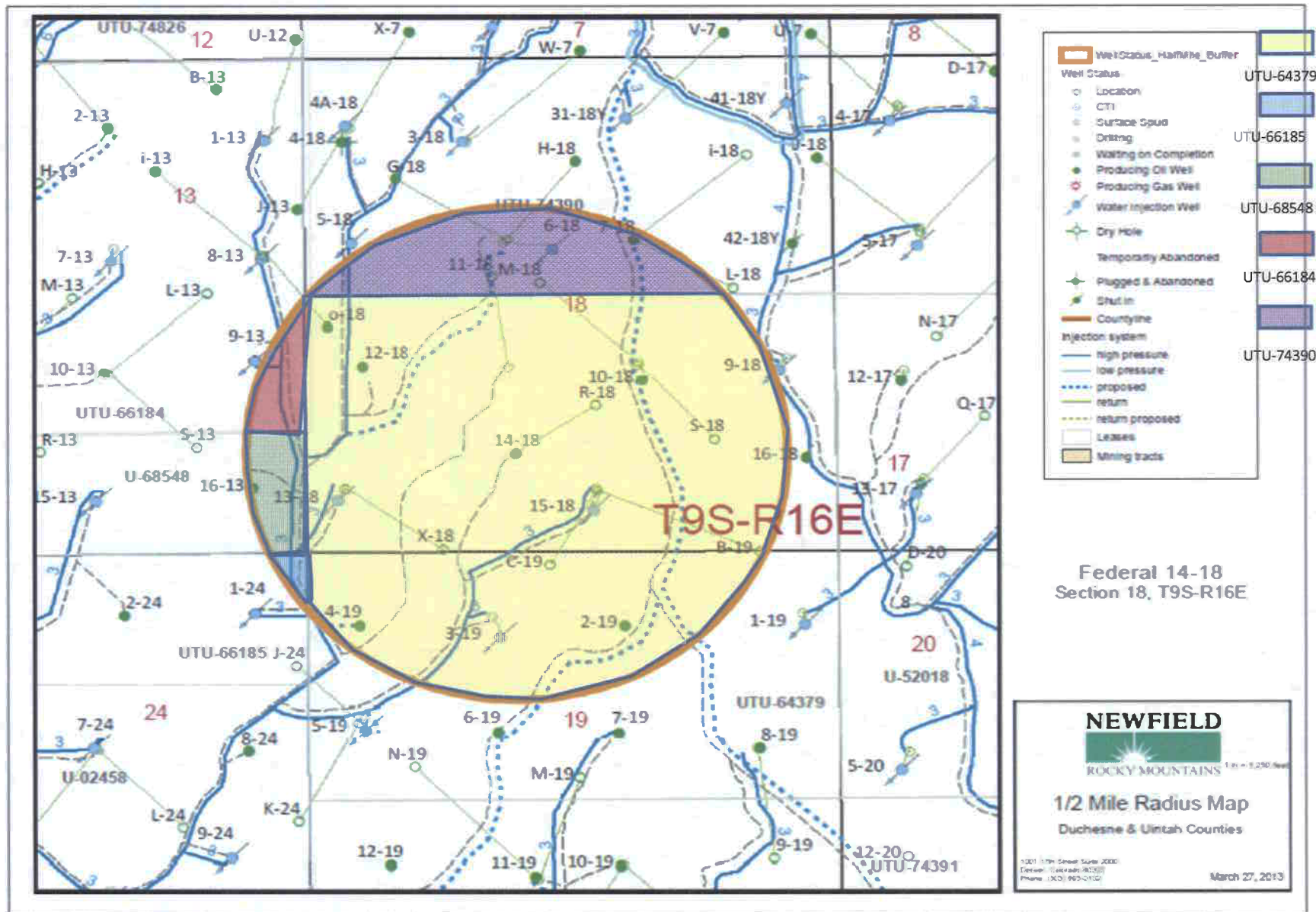
- 2.11 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.**

See Attachment C.

- 2.12 Any other information that the Board or Division may determine is necessary to adequately review the application.**

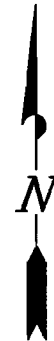
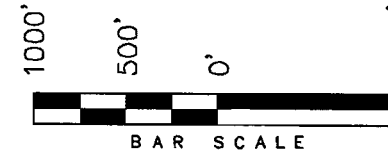
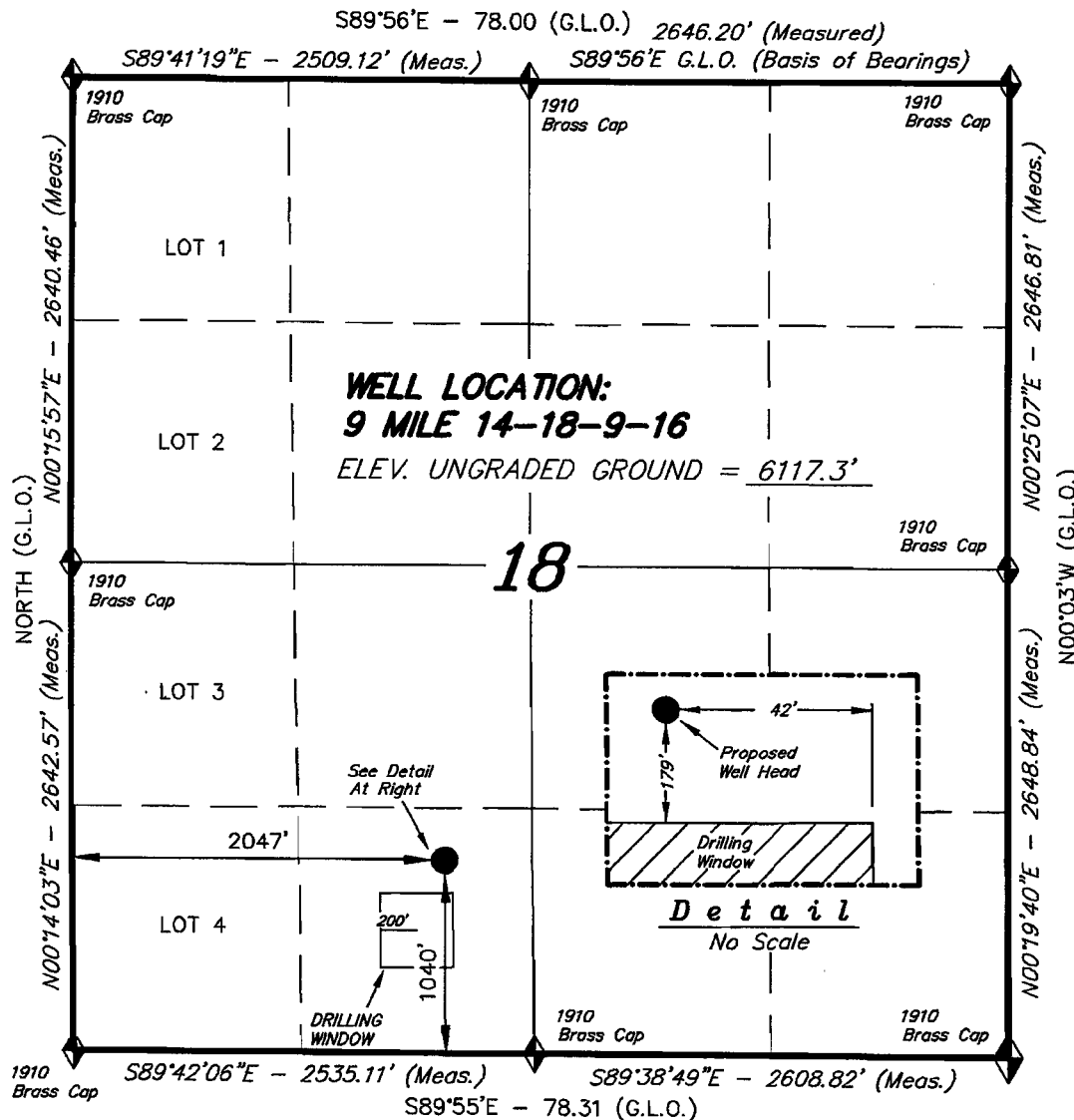
Newfield Production Company will supply any requested information to the Board or Division.

# ATTACHMENT A

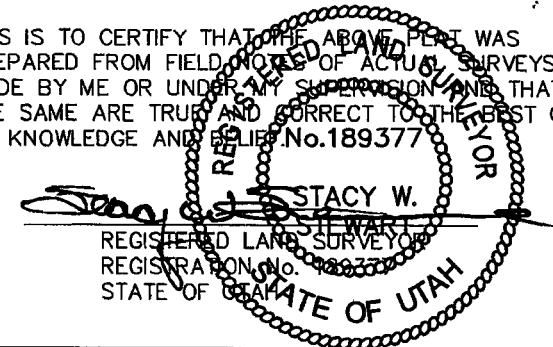


**T9S, R16E, S.L.B.&M.****NEWFIELD PRODUCTION COMPANY**

WELL LOCATION, 9 MILE 14-18-9-16,  
LOCATED AS SHOWN IN THE SE 1/4 SW  
1/4 OF SECTION 18, T9S, R16E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377



◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SW)

**9 MILE 14-18-9-16**  
(Surface Location) NAD 83  
LATITUDE = 40° 01' 35.35"  
LONGITUDE = 110° 09' 49.68"

**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 11-20-05	SURVEYED BY: K.G.S.
DATE DRAWN: 11-22-05	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

**EXHIBIT B**

#	Legal Description	Lessor & Expiration	Lessee & Operating Rights	Surface Owner
1	T9S-R16E SLM Section 8: SWNE, SE Section 9: SWSW Section 17: NE Section 18: E2SW, SE, LOTS 3, 4 Section 19: NE, E2NW, LOTS 1, 2 Section 21: N2 Section 22: W2NE, SENE, NW	USA UTU-64379 HBP	Newfield Production Company Newfield RMI LLC Yates Petroleum Corp	USA
2	T9S-R15E SLM Section 22: E2SW, LOTS 2, 3, 4 Section 23: NENE, W2E2, S2NW, E2SW Section 24: N2N2 Section 25: All Section 26: NE, NENW, S2NW, S2 Section 27: S2NE, E2NW, SE, LOTS 1, 2	USA UTU-66185 HBP	Newfield Production Company Newfield RMI LLC	USA
3	T9S-R15E SLM Section 13: S2S2 Section 14: S2S2 Section 15: NE, E2NW, LOT 4 Section 22: NE, E2NW, LOT 1 Section 23: N2NW	USA UTU-68548 HBP	Newfield Production Company Newfield RMI LLC	USA
4	T9S-R15E SLM Section 13: N2, N2S2 Section 14: N2, N2S2 Section 15: E2, Lots 1-3	USA UTU-66184 HBP	Newfield Production Company Newfield RMI LLC	USA

5	T9S-R16E SLM	USA	Newfield Production Company	USA
	Section 6: All	UTU-74390	Newfield RMI LLC	
	Section 7: All	HBP	ABO Petroleum Corp	
	Section 8: W2		MYCO Industries Inc	
	Section 17: NW		OXY Y-1 Corp	
	Section 18: NE, E2NW, LOTS 1, 2		Yates Petroleum Corp	




ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Federal #14-18-9-16

I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

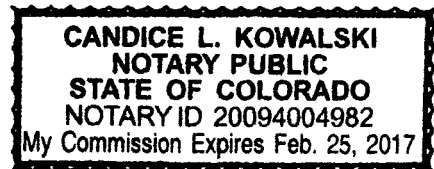
Signed:

  
Newfield Production Company  
Eric Sundberg  
Environmental Manager

Sworn to and subscribed before me this 4<sup>th</sup> day of June, 2013.

Notary Public in and for the State of Colorado: Candice L. Kowalski

My Commission Expires: My Commission Expires Feb. 25, 2017



## FEDERAL 14-18-9-16

Spud Date: 09/17/07  
Put on Production: 10/26/07  
GL: 6117' KB: 6129'

## Wellbore Diagram

Initial Production: BOPD,  
MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (309.62')  
DEPTH LANDED: 321.47' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 7 bbls cmt to surf.

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CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 155 jts. (5943.54')  
DEPTH LANDED: 5956.79' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP: 114'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 169 jts (5256.4')  
TUBING ANCHOR: 5268.4' KB  
NO. OF JOINTS: 2 jts (60.80')  
SEATING NIPPLE: 2-7/8" (1.10')  
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NO. OF JOINTS: 2 jts (61.60')  
TOTAL STRING LENGTH: EOT @ 5396' KB

SUCKER RODS

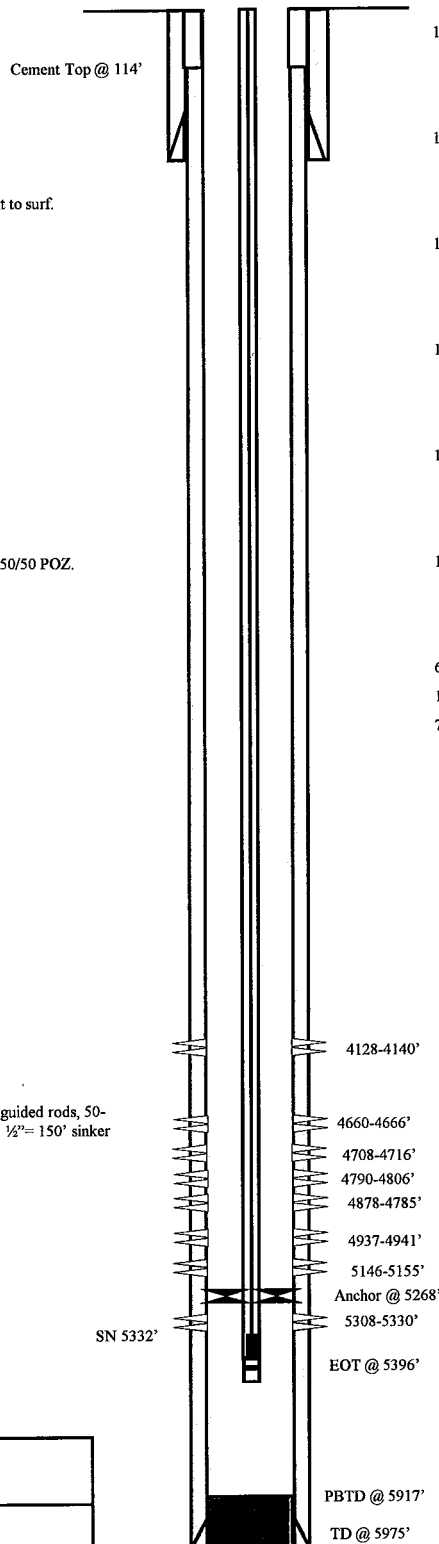
POLISHED ROD: 1-1/2" x 26' SM polished rods  
SUCKER RODS: 1- 2' x 3/4" pony rods, 100-3/4" = 2500' guided rods, 50-3/4" = 1250' guided rods, 56-3/4" = 1400' guided rods, 6-1 1/2" = 150' sinker rods.  
PUMP SIZE: CDI 2-1/2" x 1-1/4" x 14' x 18' RHAC  
STROKE LENGTH: 102"  
PUMP SPEED, 5 SPM:

FRAC JOB

10/17/07	5308-5330'	<b>Frac LODC sands as follows:</b> 100563# 20/40 sand in 746 bbls Lightning 17 frac fluid. Treated @ avg press of 1698 psi w/avg rate of 23 BPM. ISIP 2105 psi. Calc flush: 5306 gal. Actual flush: 4796 gal.
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NEWFIELD

FEDERAL 14-18-9-16

1040' FSL &amp; 2047' FWL

SE/SW Section 18-T9S-R16E

Duchesne Co, Utah

API #43-013-33000; Lease # UTU-64379

## Federal 12-18-9-16

Spud Date: 10-11-07  
Put on Production: 11-9-07  
GL: 6120' KB: 6132'

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (309.15')  
HOLE SIZE: 12-1/4"  
DEPTH LANDED: 320.05'  
CEMENT DATA: 160 sxs Class "G", circ. 7 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 155 jts. (6015.76') Includes Shoe Jt. (39.35')  
HOLE SIZE: 7-7/8"  
DEPTH LANDED: 6029.01'  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 133' per CBL 11/1/07

TUBING (GI 3/13/12)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 172 jts (5341.36')  
TUBING ANCHOR: 5353.36'  
NO. OF JOINTS: 2 jts (62.63')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5418.79' KB  
BLEED NIPPLE: 2-7/8" (0.6')  
NO. OF JOINTS: 2 jts (62.17')  
NOTCHED COLLAR: 2-7/8" (0.45')  
TOTAL STRING LENGTH: EOT @ 5483.11'

SUCKER RODS (GI

~~2018-11-20~~ ROD: 1-1/2" x 26'

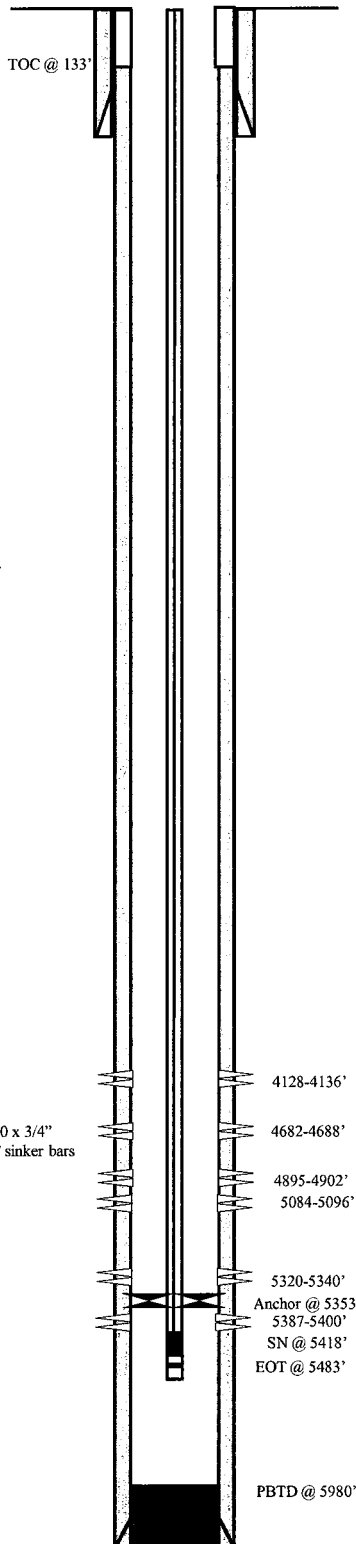
SUCKER RODS: 2', 4', 8 x 3/4" pony rods, 99 x 3/4" guided rods, 90 x 3/4" sucker rods, 20 x 3/4" guided rods, 6 x 4' x 1" weight rods, 6 x 1-1/2" sinker bars  
PUMP SIZE: 2-1/2" x 1-1/2" x 16' x 20' RHAC  
STROKE LENGTH: 102"  
PUMP SPEED, SPM: 4.6  
PUMPING UNIT: DARCO C-320-256-120

FRAC JOB

11-1-07	5320-5400'	<b>Frac LODC sands as follows:</b> 218,841# 20/40 sand in 1483 bbls Lightning 17 fluid. Treat at 2227 psi @ 24.8 BPM. ISIP 2451/psi. Calc flush: 5318 gal. Actual flush: 4813 gal.
11-6-07	5084-5096'	<b>Frac A1 sands as follows:</b> 45,166# 20/40 sand in 448 bbls Lightning 17 fluid. Treat at 2174 psi @ 24.8 BPM. ISIP 2509 psi. Calc flush: 5082 gal. Actual flush: 4578 gal.
11-6-07	4895-4902'	<b>Frac B.5 sands as follows:</b> Frac with 25,406 # 20/40 sand in 352 bbls Lightning 17 fluid. Treat at 2034 psi @ 24.8BPM. ISIP1836 psi. Calc flush: 4893 gal. Actual flush: 4989 gal.
11-6-07	4682-4688'	<b>Frac D1 sand as follows:</b> Frac with 15,540 # 20/40 sand in 264 bbls Lightning 17 fluid. Treat at 2207 psi @ 24.8 BPM. ISIP 2197 psi. Calc flush: 4680 gal. Actual flush: 4175 gal.
11-6-07	4128-4136'	<b>Frac GB-2 sands as follows:</b> Frac with 28,328 # 20/40 sand in 368 bbls Lightning 17 fluid. Treat at 1986 psi @ 24.9 BPM. ISIP 2058 psi. Calc flush: 4126 gal. Actual flush: 4032 gal.
3/15/12		Tubing Leak: Updated rod & tubing detail

PERFORATION RECORD

4128-4136'	4 JSPF	32 holes
4682-4688'	4 JSPF	24 holes
4895-4902'	4 JSPF	28 holes
5084-5096'	4 JSPF	48 holes
5320-5340'	4 JSPF	80 holes
5387-5400'	4 JSPF	52 holes



NEWFIELD

**Federal 12-18-9-16**  
1980' FSL & 560' FWL  
NW/SW Section 18-T9S-R16E  
Duchesne Co, Utah  
API #43-013-32998; Lease #UTU-64379

## FEDERAL 4-19-9-16

Spud Date: 09/21/07  
 Put on Production: 10/16/07  
 GL: 6147' KB: 6159'

## Wellbore Diagram

Initial Production: BOPD,  
 MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (318.36')  
 DEPTH LANDED: 318.43' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 1- 160, sxs Class "G" cmt, 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 154 jts. (5940.31')  
 DEPTH LANDED: 5953.56' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP: 113'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 160 jts (4960.45')  
 TUBING ANCHOR: 4974' KB  
 NO. OF JOINTS: 2 jts (61.80')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5039' KB  
 NO. OF JOINTS: 2 jts (63.1')  
 TOTAL STRING LENGTH: EOT @ 5104' KB

SUCKER RODS

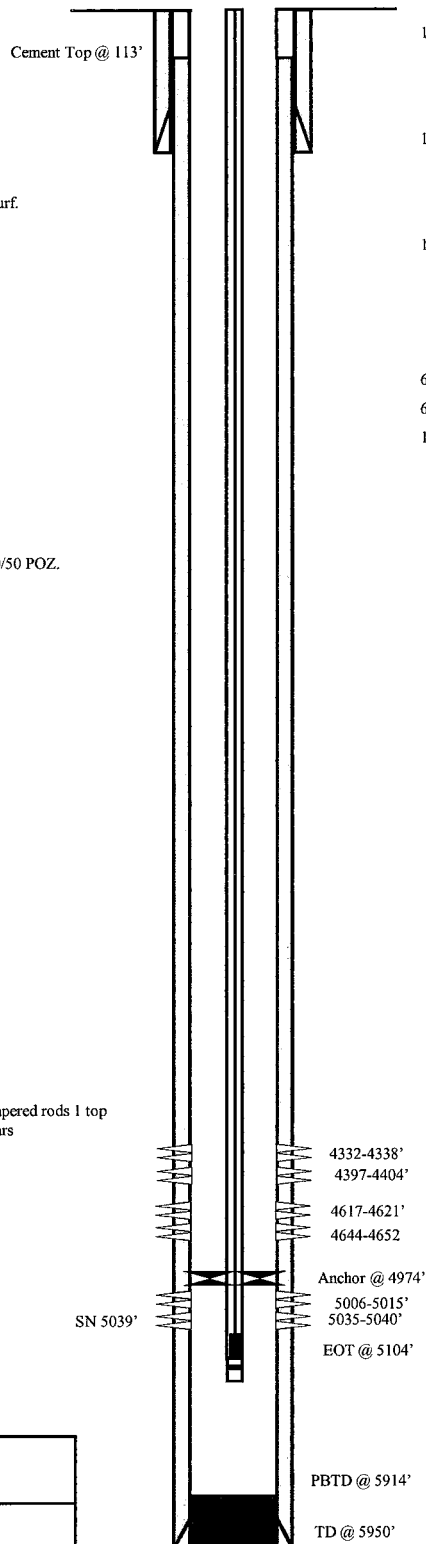
POLISHED ROD: 1-1/2" x 26" SM polished rods  
 SUCKER RODS: 1-4', & 1-2' x 3/4" pony rods, 99-3/4" scraped rods 1 top new, 36-3/4" slick rods, 59-3/4" scraped rods, 6-1 1/2 Wt Bars  
 PUMP SIZE: CDI 2-1/2" x 1-1/2" x 16' x 17' RHAC  
 STROKE LENGTH: 102"  
 PUMP SPEED, 5 SPM:


FRAC JOB

10/24/07	5006-5040'	<b>Frac A1 &amp; A3 sands as follows:</b> 59956# 20/40 sand in 510 bbls Lightning 17 frac fluid. Treated @ avg press of 2310 psi w/avg rate of 27.4 BPM. ISIP 2530 psi. Calc flush: 5004 gal. Actual flush: 4494 gal.
10/24/07	4617-4652'	<b>Frac D1 &amp; D2 sands as follows:</b> 60019# 20/40 sand in 499 bbl Lightning 17 frac fluid. Treated @ avg press of 1873 psi w/avg rate of 24.8 BPM. ISIP 2145 psi. Calc flush: 4615 gal. Actual flush: 4116 gal.
10/24/07	4332-4404'	<b>Frac PB10 &amp; PB11 sands as follows:</b> 38622# 20/40 sand in 415 bbls Lightning 17 frac fluid. Treated @ avg press of 2107 psi w/avg rate of 24.8 BPM. ISIP 2145 psi. Calc flush: 4330 gal. Actual flush: 4200 gal.
6/11/08		Stuck pump. Updated tubing and rod detail
6/18/09		Tubing Leak. Updated rod & tubing details.
10-6-2010		Parted Rods. Update rod and tubing details.

PERFORATION RECORD

5035-5040'	4 JSPF	20 holes
5006-5015'	4 JSPF	36 holes
4644-4652'	4 JSPF	32 holes
4617-4621'	4 JSPF	16 holes
4397-4404'	4 JSPF	28 holes
4332-4338'	4 JSPF	24 holes




<b>FEDERAL 4-19-9-16</b> 795'FNL & 507' FWL NW/NW Section 19-T9S-R16E Duchesne Co, Utah API #43-013-33065; Lease # UTU-64379

## FEDERAL 3-19-9-16

Spud Date: 09/12/07

Put on Production: 10/11/07

GL: 6131' KB: 6143'

Injection Wellbore  
DiagramSURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (312.15')

DEPTH LANDED: 324.27' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, est 7 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 153 jts. (5897.02')

DEPTH LANDED: 5945.27' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sxs Prem. Lite II mixed &amp; 440 sxs 50/50 POZ.

CEMENT TOP: 30'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 129 jts (3981.0')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 3993' KB

ON/OFF TOOL AT: 3994.1'

SEAL NIPPLE AT: 3995.6'

ARROW #1 PACKER CE AT: 3999'

XO 2-3/8 x 2-7/8 J-55 AT: 4002.9'

TBG PUP 2-3/8 J-55 AT: 4003.3'

X/N NIPPLE AT: 4007.4'

TOTAL STRING LENGTH: EOT @ 4009'

FRAC JOB

06/27/07 5228-5240'

**Frac LODC sands as follows:**

45550# 20/40 sand in 450 bbls Lightning 17 frac fluid. Treated @ avg press of 1899 psi w/avg rate of 24.7 BPM. ISIP 2160 psi. Calc flush: 5226 gal. Actual flush: 4746 gal.

06/27/07 4975-4982'

**Frac A1 sands as follows:**

24422# 20/40 sand in 350 bbls Lightning 17 frac fluid. Treated @ avg press of 2402 psi w/avg rate of 24.9 BPM. ISIP 2248 psi. Calc flush: 4973 gal. Actual flush: 4494 gal.

06/27/07 4823-4831'

**Frac B.5 sands as follows:**

29655# 20/40 sand in 390 bbls Lightning 17 frac fluid. Treated @ avg press of 2022 psi w/avg rate of 24.8 BPM. ISIP 1907 psi. Calc flush: 4821 gal. Actual flush: 4326 gal.

06/27/07 4594-4603'

**Frac D1 sands as follows:**

69977# 20/40 sand in 571 bbls Lightning 17 frac fluid. Treated @ avg press of 1748 psi w/avg rate of 24.8 BPM. ISIP 1927 psi. Calc flush: 4592 gal. Actual flush: 4074 gal.

06/27/07 4082-4098'

**Frac GB4 sands as follows:**

84076# 20/40 sand in 655 bbls Lightning 17 frac fluid. Treated @ avg press of 1625 psi w/avg rate of 24.8 BPM. ISIP 1836 psi. Calc flush: 4080 gal. Actual flush: 3990 gal.

09/17/10

**Pump Change.** Rod & tubing detail updated.

10/05/12 4637-4640'

**Frac D2 sands as follows:**

23809# 20/40 sand in 239 bbls Lightning 17 frac fluid.

10/05/12 4117-4120'

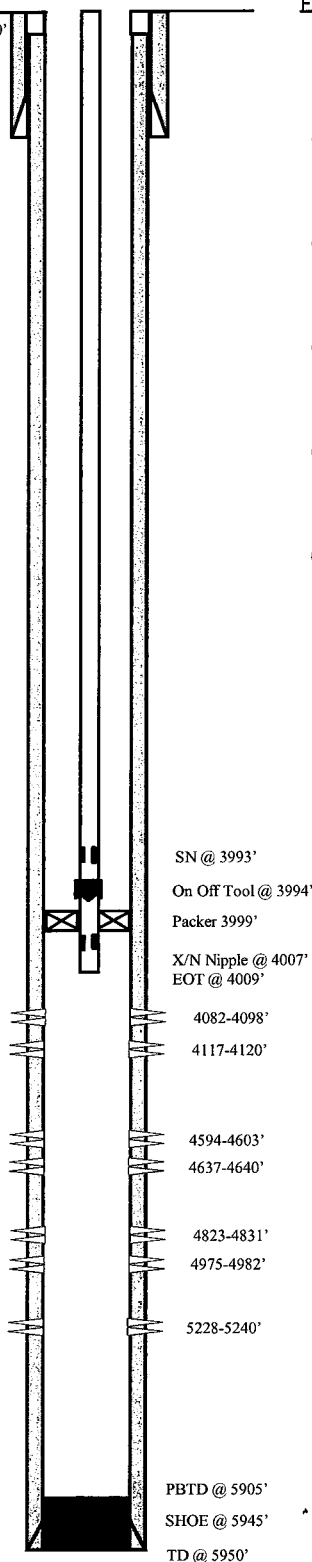
**Frac GB6 sands as follows:**

19413# 20/40 sand in 193 bbls Lightning 17 frac fluid.

10/09/12

**Convert to Injection well**

10/12/12

**Conversion MIT Finalized** - update tbg detailPERFORATION RECORD

10/11/07	5228-5240'	4 JSPF	48 holes
10/11/07	4975-4982'	4 JSPF	28 holes
10/11/07	4823-4831'	4 JSPF	32 holes
10/11/07	4594-4603'	4 JSPF	36 holes
10/11/07	4082-4098'	4 JSPF	64 holes
10/03/12	4637-4640'	3 JSPF	9 holes
10/03/12	4117-4120'	3 JSPF	9 holes

**FEDERAL 3-19-9-16**

699'FNL &amp; 1802' FWL

NE/NW Section 19-T9S-R16E

Duchesne Co, Utah

API #43-013-33064; Lease # UTU-64379

## FEDERAL 15-18-9-16

Spud Date: 09/18/07

Put on Production: 10/16/07

GL: 6049' KB: 6061'

Injection Wellbore  
DiagramSURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (312.36')

DEPTH LANDED: 324.21' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 1- 160, 2-300 sxs Class "G" cmt, est 7 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 154 jts. (5986.37')

DEPTH LANDED: 5999.62' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sxs Prem. Lite II mixed &amp; 450 sxs 50/50 POZ.

CEMENT TOP: 30'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

TUBING 1 jt 2-7/8" N-80 (31.2')

TBG SUB 2-7/8 N-80 (6.2')

TBG SUB 2-7/8 J-55 (6.2')

NO. OF JOINTS: 146 jts (4492.9')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 4548.6' KB

ON/OFF TOOL AT: 4549.7'

ARROW #1 PACKER CE AT: 4554.41'

XO 2-3/8 x 2-7/8 J-55 AT: 4558.1'

TBG SUB 2-3/8 J-55 AT: 4558.6'

X/N NIPPLE AT: 4564.8'

TOTAL STRING LENGTH: EOT @ 4566'

FRAC JOB

10/11/07 5649-5658'

**Frac CP3 sands as follows:**

15067# 20/40 sand in 290 bbls Lightning 17 frac fluid. Treated @ avg press of 2158 psi w/avg rate of 24.8 BPM. ISIP 1805 psi. Calc flush: 5647 gal. Actual flush: 5166 gal.

10/11/07 5236-5272'

**Frac LODC sands as follows:**

159885# 20/40 sand in 1115 bbl Lightning 17 frac fluid. Treated @ avg press of 1955 psi w/avg rate of 24.8 BPM. ISIP 2340 psi. Calc flush: 5234 gal. Actual flush: 4746 gal.

10/11/07 4976-4985'

**Frac A1 sands as follows:**

34607# 20/40 sand in 423 bbls Lightning 17 frac fluid. Treated @ avg press of 2543 psi w/avg rate of 29.9 BPM. ISIP 3582 psi. Calc flush: 4974 gal. Actual flush: 4494 gal.

10/11/07 4828-4837'

**Frac B1 sands as follows:**

15082# 20/40 sand in 267 bbls Lightning 17 frac fluid. Treated @ avg press of 2075 psi w/avg rate of 24.8 BPM. ISIP 1935 psi. Calc flush: 4826 gal. Actual flush: 4326 gal.

10/11/07 4584-4598'

**Frac D1 sands as follows:**

47763# 20/40 sand in 455 bbls Lightning 17 frac fluid. Treated @ avg press of 1975 psi w/avg rate of 24.8 BPM. ISIP 2078 psi. Calc flush: 4582 gal. Actual flush: 4491 gal.

12-31-07

**Pump Change.** Updated rod & tubing details.

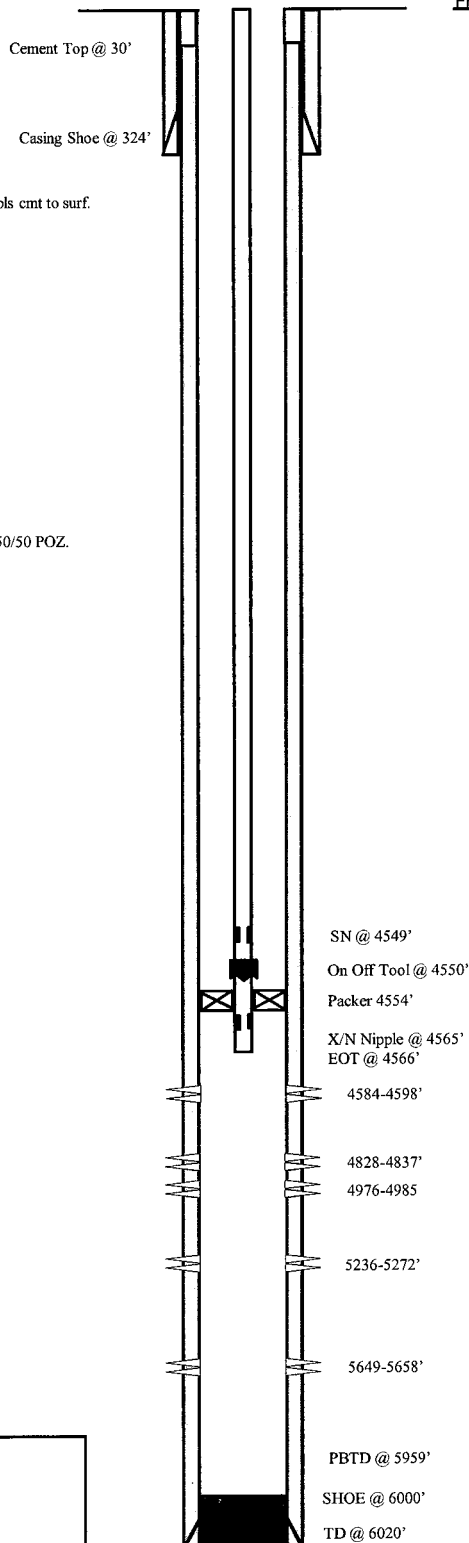
10/22/12

**Convert to Injection Well**

10/23/12

**Conversion MIT Finalized** – update tbg detailPERFORATION RECORD

10/11/07	4584-4598'	4 JSPF	56 holes
10/11/07	4828-4837'	4 JSPF	36 holes
10/11/07	4976-4985'	4 JSPF	36 holes
10/11/07	5236-5272'	4 JSPF	144 holes
10/11/07	5649-5658'	4 JSPF	36 holes

**BELUGA FEDERAL 15-18-9-16**

657' FSL &amp; 2350' FEL

SW/SE Section 18-T9S-R16E

Duchesne Co, Utah

API #43-013-33001; Lease # UTU-64379

## Federal 2-19-9-16

Spud Date: 5/21/2009  
 Put on Production: 6/30/2009  
 GL: 5966' KB: 5978'

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (276')  
 DEPTH LANDED: 328'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 220 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 145 jts. (5772')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5799.81'  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 88'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 173 jts (5325')  
 TUBING ANCHOR: 5337'  
 NO. OF JOINTS: 1 jts (30.9')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 5371' KB  
 NO. OF JOINTS: 2 jts (61.7')  
 TOTAL STRING LENGTH: EOT @ 5434'

SUCKER RODS

POLISHED ROD: 1-1/2" x 26'  
 SUCKER RODS: 1 - 4' x 3/4" pony rods, 101 - 3/4" guided rods, 87 - 3/4" sucker rods, 20 - 3/4" guided rods, 6 - 1 1/2" weight bars  
 PUMP SIZE: 2 1/2 x 1 1/2 x 20' RHAC  
 STROKE LENGTH: 100  
 PUMP SPEED: SPM 5

Cement Top @ 88'

SN @ 5371'

Anchor @ 5337'

5348-5354'

EOT @ 5434'

PBTD @ 5784'

SHOE @ 5800'

TD @ 5810'

FRAC JOB

7-1-09	5348-5354'	<b>Frac CPI sands as follows:</b> Frac with 19980# 20/40 sand in 165 bbls Lightning 17 fluid.
7-1-09	5082-5099'	<b>Frac LODC sands as follows:</b> Frac with 25343# 20/40 sand in 207 bbls Lightning 17 fluid.
7-1-09	4820-4838'	<b>Frac A1 sands as follows:</b> Frac with 25225# 20/40 sand in 206 bbls Lightning 17 fluid.
7-1-09	4679-4685'	<b>Frac B1 sands as follows:</b> Frac with 31161# 20/40 sand in 248 bbls Lightning 17 fluid.
7-1-09	4436-4444'	<b>Frac D1 sands as follows:</b> Frac with 81584# 20/40 sand in 472 bbls Lightning 17 fluid.
7-1-09	3982-3998'	<b>Frac GB6 sands as follows:</b> Frac with 85303# 20/40 sand in 491 bbls Lightning 17 fluid.

PERFORATION RECORD

5348-5354'	3 JSPF	18 holes
5095-5099'	3 JSPF	12 holes
5082-5085'	3 JSPF	9 holes
4835-4838'	3 JSPF	9 holes
4820-4824'	3 JSPF	12 holes
4679-4685'	3 JSPF	18 holes
4436-4444'	3 JSPF	24 holes
3993-3998'	3 JSPF	15 holes
3982-3985'	3 JSPF	9 holes



**Federal 2-19-9-16**  
 821' FNL & 2093' FEL NW/NE  
 Section 19-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33063; Lease #UTU-64379

## FEDERAL 10-18-9-16

Spud Date: 05/18/07  
Put on Production: 6/21/07  
GL: 5921' KB: 5933'

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (314.33')  
DEPTH LANDED: 324.33' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, circ 2 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 135 jts. (5900.07')  
DEPTH LANDED: 5882.14' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 325 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.  
CEMENT TOP: 17' per CBL 6/13/7

TUBING (GI 6/21/07)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 159 jts (4960.31')  
TUBING ANCHOR: 4960.3' KB  
NO. OF JOINTS: 1 jt (31.70')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4994.80' KB  
NO. OF JOINTS: 2 jts (63.10')  
TOTAL STRING LENGTH: EOT @ 5059' KB

SUCKER RODS (GI 2/23/10)

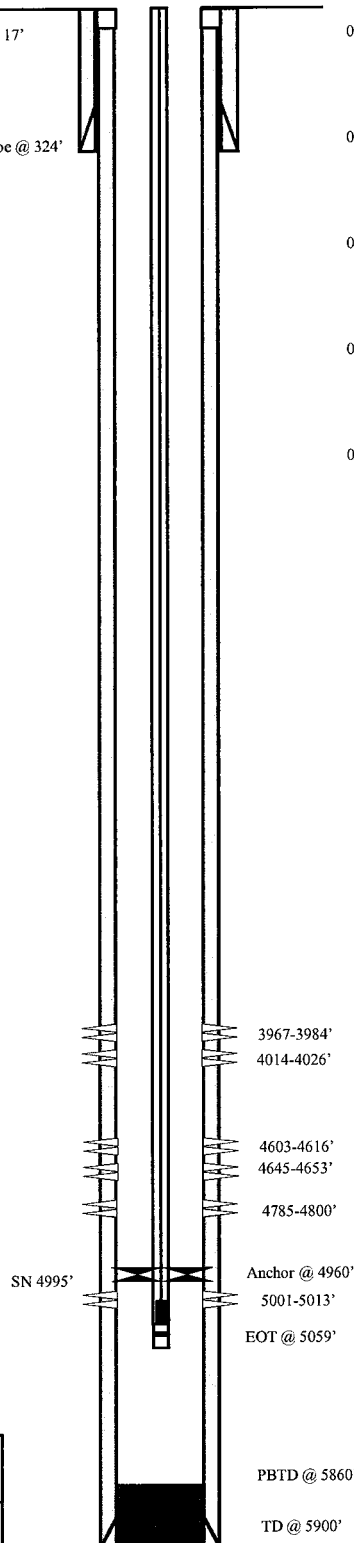
POLISHED ROD: 1-1/2" x 26' SM polished rods  
SUCKER RODS: 1-2", 1-4", 1-6" x 3/4" pony rods, 99-3/4" guided rods, 74-3/4" sucker rods, 20-3/4" guided rods, 6-1 1/2" weight rods.  
PUMP SIZE: CDI 2-1/2" x 1-1/2" x 16' X 21' RHAC  
STROKE LENGTH: 102.5"  
PUMP SPEED, SPM: 5  
PUMPING UNIT: DARCO C-320-256-120

FRAC JOB

06/18/07	5001-5013'	<b>Frac A3 sands as follows:</b> 50726# 20/40 sand in 445 bbls Lightning 17 frac fluid. Treated @ avg press of 3230 psi w/avg rate of 24.2 BPM. ISIP 3789 psi. Calc flush: 4999 gal. Actual flush: 4536 gal.
06/18/07	4785-4800'	<b>Frac B2 sands as follows:</b> 70146# 20/40 sand in 555 bbls Lightning 17 frac fluid. Treated @ avg press of 3230 psi w/avg rate of 24.2 BPM. ISIP 2160 psi. Calc flush: 4783 gal. Actual flush: 4326 gal.
06/18/07	4603-4653'	<b>Frac D3&amp;C sands as follows:</b> 46884# 20/40 sand in 409 bbls Lightning 17 frac fluid. Treated @ avg press of 3230 psi w/avg rate of 24.2 BPM. ISIP 2165 psi. Calc flush: 4601 gal. Actual flush: 4116 gal.
06/18/07	3967-4026'	<b>Frac GB4&amp;6 sands as follows:</b> 106590# 20/40 sand in 762 bbls Lightning 17 frac fluid. Treated @ avg press of 1767 psi w/avg rate of 24.8 BPM. ISIP 1980 psi. Calc flush: 3965 gal. Actual flush: 3864 gal
02/25/10		Pump Change. Rod & Tubing updated

PERFORATION RECORD

06/12/07	5001-5013'	4 JSPF	48 holes
06/18/07	4785-4800'	4 JSPF	60 holes
06/18/07	4645-4653'	4 JSPF	32 holes
06/18/07	4603-4616'	4 JSPF	52 holes
06/18/07	4014-4026'	4 JSPF	48 holes
06/18/07	3967-3984'	4 JSPF	68 holes

**FEDERAL 10-18-9-16**

1988' FSL &amp; 1938' FEL

NW/SE Section 18-T9S-R16E

Duchesne Co, Utah

API #43-013-32921; Lease # UTU-64379

GI 3/23/12



## FEDERAL 9-18-9-16

Spud Date: 7/31/08  
 Put on Production: 9/23/08  
 GL: 5306' KB: 5318'

SURFACE CASING

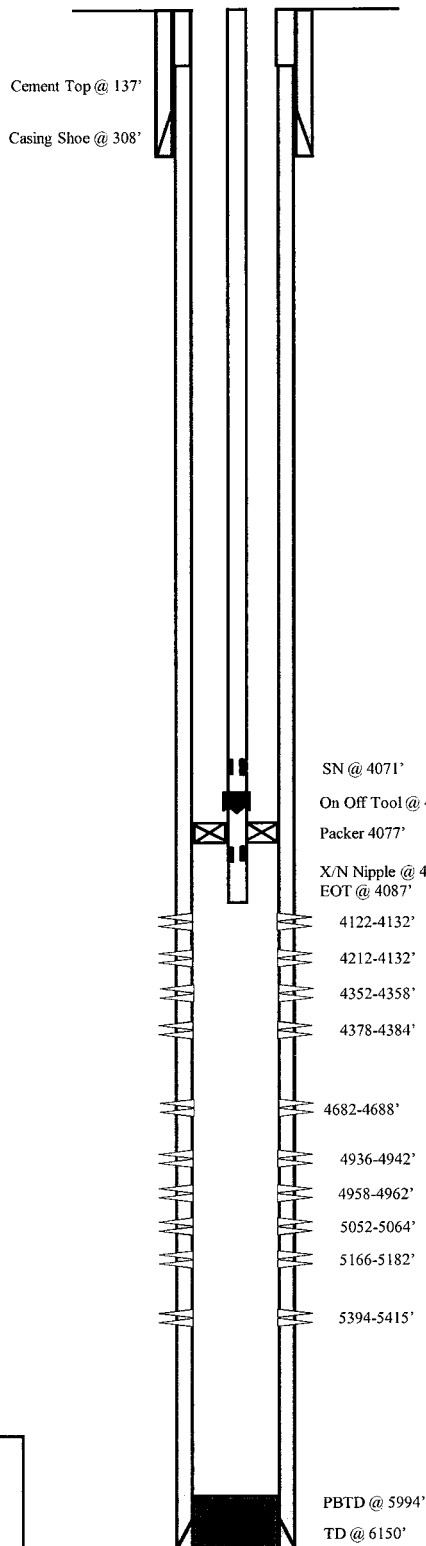
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (296.14')  
 DEPTH LANDED: 307.99'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: To surface with 160 sx Class 'G' cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 153 jts (6222.42')  
 DEPTH LANDED: 6076.98'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 350 sx Premilite II and 450 sx 50/50 poz  
 CEMENT TOP: 137'

TUBING

SIZE/GRADE/WT.: 2 7/8" / 6.5# / J-55  
 NO. OF JOINTS: 129 jts (4058.8')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4070.8'  
 ON/OFF TOOL AT: 4071.9'  
 ARROW #1 PACKER CE AT: 4076.65'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4080.3'  
 TBG PUP 2-3/8 J-55 AT: 4080.8'  
 X/N NIPPLE AT: 4084.9'  
 TOTAL STRING LENGTH: EOT @ 4087'

Injection Wellbore  
DiagramFRAC JOB

9/18/07	5394-5415'	<b>Frac LODC sds as follows:</b> 85,173#s of 20/40 sand in 688 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2345 psi w/ ave rate of 24.8 BPM. ISIP 2500 psi.
9/18/07	5166-5182'	<b>Frac A3 sds as follows:</b> 98,499#s of 20/40 sand in 773 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1870 psi w/ ave rate of 24.8 BPM. ISIP 2315 psi.
05/28/08		<b>Pump change.</b> Updated rod and tubing details
8/25/08	5052-5064'	<b>RU BJ &amp; frac A.5 sds as follows:</b> 49,743#s of 20/40 sand in 459 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2143 w/ ave rate of 22.9 bpm w/ 8 ppg of sand. ISIP was 2486.
8/25/08	4958-4962'	<b>RU BJ &amp; frac stage #2 as follows:</b> 29,943#s of 20/40 sand in 390 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1986 w/ ave rate of 23 bpm w/ 6 ppg of sand. ISIP was 1955.
8/25/08	4682-4688'	<b>RU BJ &amp; frac stage #3 as follows:</b> 24,780#s of 20/40 sand in 344 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1984 w/ ave rate of 23 bpm w/ 6 ppg of sand. ISIP was 2000.
8/25/08	4352-4358'	<b>RU BJ &amp; frac stage #4 as follows:</b> 40,471#s of 20/40 sand in 390 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2224 w/ ave rate of 23 bpm w/ 8 ppg of sand. ISIP was 2177.
8/25/08	4212-4226'	<b>RU BJ &amp; frac stage #5 as follows:</b> 40,033#s of 20/40 sand in 391 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1474 w/ ave rate of 23 bpm w/ 8 ppg of sand. ISIP was 1715.
8/25/08	4122-4132'	<b>RU BJ &amp; frac stage #5 as follows:</b> 40,033#s of 20/40 sand in 391 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1474 w/ ave rate of 23 bpm w/ 8 ppg of sand. ISIP was 1715.
6/12/09		<b>Tubing Leak.</b> Updated rod & tubing details.
11/18/2010		<b>Pump Change.</b> Update rod and tubing details
11/29/2011		<b>Pump Change.</b> Updated rod & tubing detail.
2/17/12		<b>Pump Change:</b> updated rod & tubing detail
10/24/12		<b>Convert to Injection Well</b>
10/25/12		<b>Conversion MIT Finalized</b> -- update tbg detail

PERFORATION RECORD

8/25/08	4122-4132'	4 JSPF	40 holes
8/25/08	4212-4226'	4 JSPF	56 holes
8/25/08	4352-4358'	4 JSPF	24 holes
8/25/08	4378-4384'	4 JSPF	24 holes
8/25/08	4682-4688'	4 JSPF	24 holes
8/25/08	4958-4962'	4 JSPF	16 holes
8/25/08	4936-4942'	4 JSPF	24 holes
8/22/08	5052-5064'	4 JSPF	48 holes
9/18/07	5166-5182'	4 JSPF	84 holes
9/18/07	5394-5415'	4 JSPF	84 holes



**FEDERAL 9-18-9-16**  
 2054' FSL & 470' FEL  
 NE/SE Section 18-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-32920; Lease # UTU-64379

## West Point 3-18-9-16

Spud Date: 12-15-06  
Put on Production: 2/8/07  
GL: 6054' KB: 6066'

### Injection Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (310.06')  
DEPTH LANDED: 321.91' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 6 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 137 jts. (6053.99')  
DEPTH LANDED: 6067.24' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
CEMENT TOP AT: 110'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 131 jts (4140.45')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4152.45' KB  
CE @ 4156.75'  
TOTAL STRING LENGTH: EOT @ 4160.82' KB

#### FRAC JOB

02-01-07 5745-5841' **Frac CP4, & CP3 sands as follows:**  
39231# 20/40 sand in 396 bbls Lightning 17 frac fluid. Treated @ avg press of 2354 psi w/avg rate of 24.7 BPM. ISIP 1986 psi. Calc flush: 5743 gal. Actual flush: 5250 gal.

02-01-07 5131-5146' **Frac A1 sands as follows:**  
87269# 20/40 sand in 666 bbls Lightning 17 frac fluid. Treated @ avg press of 2631 psi w/avg rate of 24.8 BPM. ISIP 2192 psi. Calc flush: 5129 gal. Actual flush: 4662 gal.

02-01-07 4976-5015' **Frac B1, & B2 sands as follows:**  
49371# 20/40 sand in 419 bbls Lightning 17 frac fluid. Treated @ avg press of 2122 psi w/avg rate of 24.7 BPM. ISIP 2068 psi. Calc flush: 4974 gal. Actual flush: 4452 gal.

02-01-07 4470-4503' **Frac PB10, & PB11 sands as follows:**  
79312# 20/40 sand in 586 bbls Lightning 17 frac fluid. Treated @ avg press of 2401 w/avg rate of 24.8 BPM. ISIP 2342 psi. Calc flush: 4468 gal. Actual flush: 3948 gal.

02-01-07 4220-4230' **Frac GB4 sands as follows:**  
50606# 20/40 sand in 418 bbls Lightning 17 frac fluid. Treated @ avg press of 1930 w/avg rate of 24.7 BPM. ISIP 2342 psi. Calc flush: 4218 gal. Actual flush: 4116 gal.

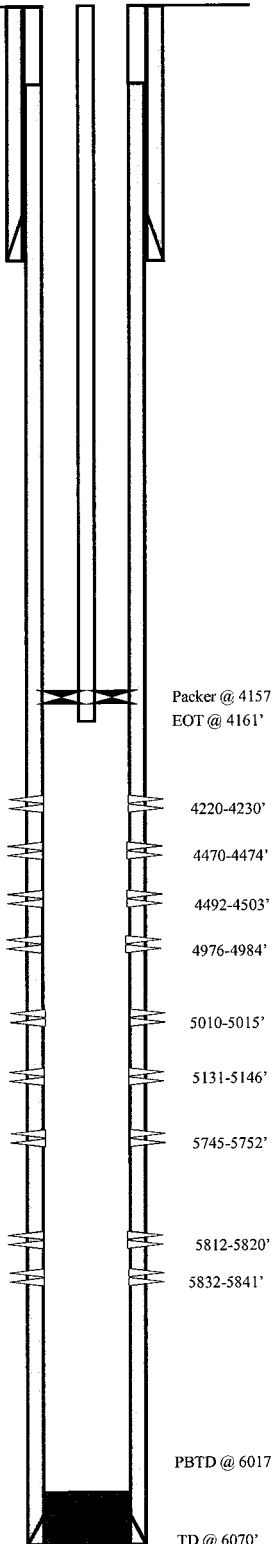
8/8/07 **Parted rods.** Updated rod & tubing details.

2/29/08 **Tubing Leak.** Updated rod & tubing details.

2/2/09 **Well converted to an Injection Well.**  
2/4/09 **Conversion MIT finalized** – update tbd detail.

#### PERFORATION RECORD

01-19-07	5832-5841'	4 JSPF	36 holes
01-19-07	5812-5820'	4 JSPF	32 holes
01-19-07	5745-5752'	4 JSPF	28 holes
02-01-07	5131-5146'	4 JSPF	60 holes
02-01-07	5010-5015'	4 JSPF	20 holes
02-01-07	4976-4984'	4 JSPF	32 holes
02-01-07	4492-4503'	4 JSPF	44 holes
02-01-07	4470-4474'	4 JSPF	16 holes
02-01-07	4220-4230'	4 JSPF	40 holes



**West Point 3-18-9-16**

888' FNL & 1562' FWL

NE/NW Section 18-T9S-R16E

Duchesne Co, Utah

API # 43-013-32794; Lease # UTU-74390

## WEST POINT FED. 7-18-9-16

Spud Date: 05/22/07  
Put on Production: 06/29/07

GL: 5902' KB: 5914'

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (306.52')  
DEPTH LANDED: 318.37' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

**PRODUCTION CASING**

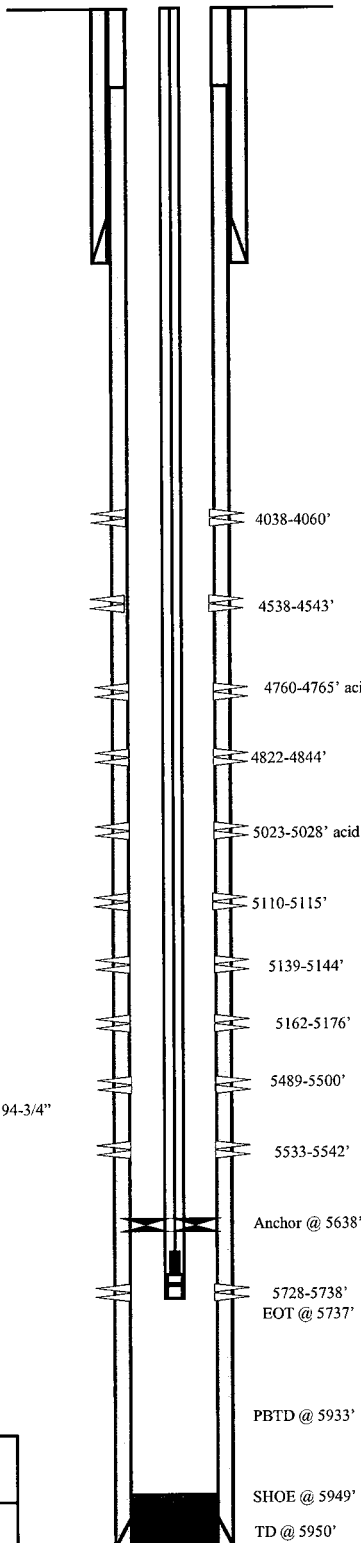
CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 136 jts. (5935.87')  
DEPTH LANDED: 5949.12' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.  
CEMENT TOP: 41'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 181 jts (5638.00')  
TUBING ANCHOR: 5638' KB  
NO. OF JOINTS: 1 jts (31.7')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5673' KB  
NO. OF JOINTS: 2 jts (63.3')  
TOTAL STRING LENGTH: EOT @ 5737' KB

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 26' SM polished rods  
SUCKER RODS: 1-2' & 1-6' x 3/4" pony rods, 98-3/4" guided rods, 94-3/4" sucker rods, 28-3/4" guided rods, 6-1 1/2" sinker bars.  
PUMP SIZE: CDI 2-1/2" x 1-1/4" x 16' x 20' RHAC  
STROKE LENGTH: 120"  
PUMP SPEED, 4 SPM:

**Wellbore Diagram**

Initial Production: BOPD,  
MCFD, BWPD

**FRAC JOB**

06/21/07 5728-5738' **Frac CP5 sands as follows:**  
18787# 20/40 sand in 302 bbls Lightning 17 frac fluid. Treated @ avg press of 2145 psi w/avg rate of 24.7 BPM. ISIP 2180 psi. Calc flush: 5726 gal. Actual flush: 5250 gal.

06/21/07 5489-5542' **Frac CP2 & CP1 sands as follows:**  
79580# 20/40 sand in 611 bbls Lightning 17 frac fluid. Treated @ avg press of 2144 psi w/avg rate of 24.7 BPM. ISIP 2255 psi. Calc flush: 5531 gal. Actual flush: 4998 gal.

06/21/07 5110-5176' **Frac LODC sands as follows:**  
90131# 20/40 sand in 670 bbls Lightning 17 frac fluid. Treated @ avg press of 2615 psi w/avg rate of 24 BPM. ISIP 2629 psi. Calc flush: 5108 gal. Actual flush: 4662 gal.

06/21/07 5023-5028' **Perf. A3 sands/Acid.**  
Spotted acid twice on perf's, perf's still won't break down.

06/21/07 4822-4844' **Frac B2 sands as follows:**  
125067# 20/40 sand in 861 bbls Lightning 17 frac fluid. Treated @ avg press of 1972 psi w/avg rate of 24.8 BPM. ISIP 2227 psi. Calc flush: 4820 gal. Actual flush: 4368 gal

06/21/07 4760-4765' **Perf. B.5 sands/Acid.**  
Spotted acid on perf's, perf's still won't break down.

06/22/07 4538-4543' **Frac D1 sands as follows:**  
15108# 20/40 sand in 239 bbls Lightning 17 frac fluid. Treated @ avg press of 2126 psi w/avg rate of 24.7 BPM. ISIP 1935 psi. Calc flush: 4536 gal. Actual flush: 4074 gal

06/22/07 4038-4060' **FracGB4 sands as follows:**  
88792# 20/40 sand in 618 bbls Lightning 17 frac fluid. Treated @ avg press of 1713 psi w/avg rate of 24.8 BPM. ISIP 2050 psi. Calc flush: 4036 gal. Actual flush: 4032 gal

12/16/11 Pump Change. Rods & tubing updated.

**PERFORATION RECORD**

Date	Depth Range	Tool	Holes
06/21/07	5728-5738'	4 JSPF	40 holes
06/21/07	5533-5542'	4 JSPF	36 holes
06/21/07	5489-5500'	4 JSPF	44 holes
06/21/07	5162-5176'	4 JSPF	56 holes
06/21/07	5139-5144'	4 JSPF	20 holes
06/21/07	5110-5115'	4 JSPF	20 holes
06/21/07	5023-5028'	4 JSPF	20 holes
06/21/07	4822-4844'	4 JSPF	88 holes
06/21/07	4760-4765'	4 JSPF	20 holes
06/22/07	4538-4543'	4 JSPF	20 holes
06/22/07	4038-4060'	4 JSPF	88 holes

**WEST POINT FED. 7-18-9-16**

1962' FNL & 1941' FEL

SW/NE Section 18-T9S-R16E

Duchesne Co, Utah

API #43-013-32919; Lease # UTU-74390

TW 01/09/12

## WEST POINT FED 6-18-9-16

Spud Date: 10/11/2007

Put on Production: 11/21/2007

GL: 6084' KB: 6096'

Injection Wellbore  
DiagramSURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts (307.26')

DEPTH LANDED: 319'

HOLE SIZE: 12 1/4"

CEMENT DATA: To Surface w/160 sx class 'G' cement

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH:

DEPTH LANDED: 6007'

HOLE SIZE: 7 7/8"

CEMENT DATA: 300 sx primlite II and 400 sx 50/50 poz

CEMENT TOP: 85'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 133 jts (4183.7')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 4195.7' KB

ON/OFF TOOL AT: 4196.8'

PACKER CE @ 4201.89'

XO AT: 4205.6'

TBG PUP AT: 4206.1'

XN NIPPLE AT: 4210.1'

TOTAL STRING LENGTH: EOT @ 4212' KB

FRAC JOB

11/13/07	5663-5692'	<b>Frac CPI sds</b> w/ 130,809#s of 20/40 sand in 968 bbls of Lightning 17 fluid. Broke @ 1459 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1872 psi @ ave rate of 24.8 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 2168 psi Calc Flush: ? Actual Flush: 5153 gals.
11/14/07	5272-5282'	<b>Frac A3 sds</b> w/ 34,743#s of 20/40 sand in 417 bbls of Lightning 17 fluid. Broke @ 3550 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1937 psi @ ave rate of 24.8 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 2347 psi Calc Flush: ? Actual Flush: 4767 gals.
11/14/07	4974-4986'	<b>Frac B.5 sds</b> w/ 80,129#s of 20/40 sand in 625 bbls of Lightning 17 fluid. Broke @ 3658 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1721 psi @ ave rate of 24.8 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 1899 psi Calc Flush: ? Actual Flush: 4553 gals.
11/14/07	4913-4924'	<b>Frac C sds</b> w/ 40,150#s of 20/40 sand in 408 bbls of Lightning 17 fluid. Broke @ 1850 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2084 psi @ ave rate of 24.7 BPM. Pumped 504 gals of 15% HCL in flush for Stage #5. ISIP 2483 psi Calc Flush: ? Actual Flush: 4368 gals.
11/14/07	4226-4250'	<b>Frac GB4 sds</b> w/ 124,267#s of 20/40 sand in 914 bbls of Lightning 17 fluid. Broke @ 1250 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1676 psi @ ave rate of 24.8 BPM. ISIP 1895 psi. Calc Flush: ? Actual Flush: 4158 gals.
08/03/12		<b>Convert to Injection Well</b>
08/06/12		<b>Conversion MIT Finalized</b> -- update tbg detail

PERFORATION RECORD

11/08/07	5663-5692'	4 JSPF	116 holes
11/13/07	5272-5282'	4 JSPF	40 holes
11/14/07	4974-4986'	4 JSPF	48 holes
11/14/07	4913-4924'	4 JSPF	44 holes
11/14/07	4226-4250'	4 JSPF	96 holes



## WEST POINT FEDERAL 6-18-9-16

1971'FNL &amp; 1947' FWL

SE/NW Section 18-T9S-R16E

Duchesne Co, Utah

API #43-013-32997; Lease # UTU-74390

PBTB @ 5967'

TD @ 6060

## Ashley Federal 9-13-9-15

Spud Date: 5/30/05

Put on Production: 7/15/05

GL: 6113' KB: 6125'

Initial Production: 72 BOPD, 4  
MCFD, 75 BWPDSURFACE CASING

CSG SIZE: 8 5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (304.59')

DEPTH LANDED: 314.59' KB

HOLE SIZE: 12 1/4"

CEMENT DATA: 160 sks Class G Mix. Est 4 bbls cement to pit

PRODUCTION CASING

CSG SIZE: 5 1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 144 jts. (6026.97')

DEPTH LANDED: 6024.97' KB

HOLE SIZE: 7 7/8"

CEMENT DATA: 300 sxs Prem. Lite II mixed &amp; 400 sxs 50/50 POZ mix.

CEMENT TOP AT: 234'

TUBING

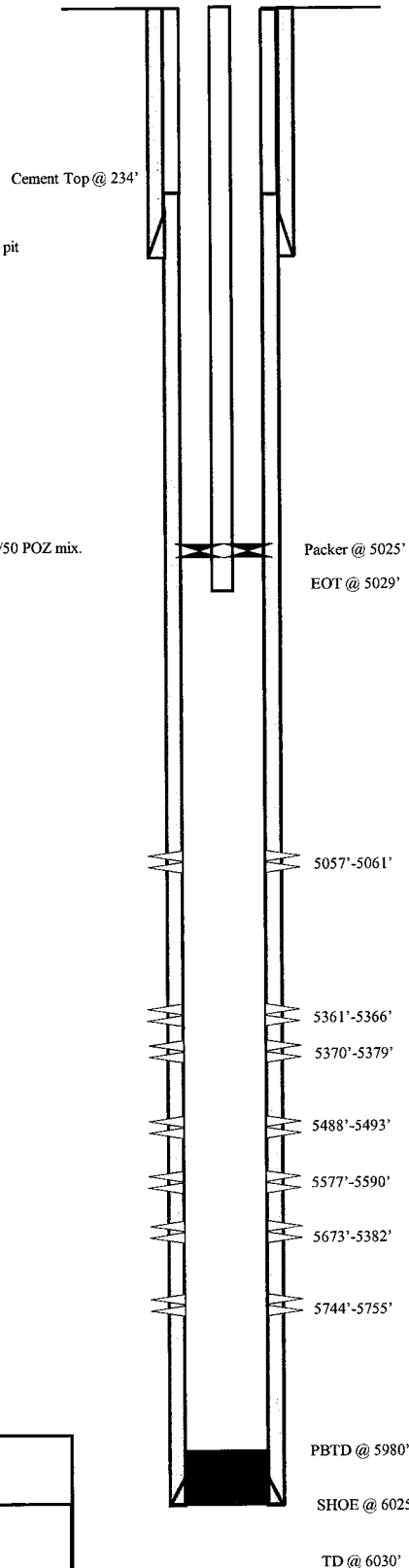
SIZE/GRADE/WT.: 2 7/8" / J-55 / 6.5#

NO. OF JOINTS: 182 jts (5008.38')

SEATING NIPPLE: 2 7/8" (1.10')

SN LANDED AT: 5020.38' KB

TOTAL STRING LENGTH: 5028.93' w/ 12' KB

Injection Wellbore  
DiagramFRAC JOB

7/8/05 5673'-5755'

**Frac CP3 and CP4 sands as follows:**  
63,817#s of 20/40 sand in 528 bbls lightning  
17 frac fluid. Treated @ avg press of 1142,  
w/avg rate of 24.6 bpm. ISIP 1800 psi. Calc  
flush: 5671 gal. Actual flush: 5460 gal.

7/8/05 5577'-5590'

**Frac CP1 sands as follows:**  
34,856#s of 20/40 sand in 360 bbls lightning  
17 frac fluid. Treated @ avg press of 1533,  
w/avg rate of 24.4 bpm. ISIP 1650 psi. Calc  
flush: 5575 gal. Actual flush: 5389 gal.

7/8/05 5488'-5493'

**Frac LODC sands as follows:**  
15,991#s of 20/40 sand in 264 bbls  
lightning 17 frac fluid. Treated @ avg press  
of 1970, w/avg rate of 24.8 bpm. ISIP 2000  
psi. Calc flush: 5486 gal. Actual flush: 5380  
gal.

7/8/05 5361'-5379'

**Frac LODC sands as follows:**  
44,731#s of 20/40 sand in 405 bbls  
lightning 17 frac fluid. Treated @ avg press  
of 1927, w/avg rate of 24.5 bpm. ISIP 3800  
psi. Calc flush: 5359 gal. Actual flush: 4801  
gal.

Packer @ 5025'

EOT @ 5029'

7/13/05 5057'-5061'

**Frac A1 sands as follows:**  
12,743#s of 20/40 sand in 139 bbls  
lightning 17 frac fluid. Treated @ avg press  
of 3351, w/avg rate of 14.4 bpm. ISIP 2100  
psi. Calc flush: ?gal. Actual flush: 1176  
gal.

6/5/06

**Well converted to an Injection well.**

6/22/06

**MIT completed and submitted.**PERFORATION RECORD

7/05/05	5744'-5755'	4 JSPF	44 holes
7/05/05	5673'-5682'	4 JSPF	36 holes
7/08/05	5577'-5590'	4 JSPF	52 holes
7/08/05	5488'-5493'	4 JSPF	20 holes
7/08/05	5370'-5379'	4 JSPF	36 holes
7/08/05	5361'-5366'	4 JSPF	20 holes
7/08/05	5057'-5061'	4 JSPF	16 holes

**NEWFIELD**

Ashley Federal 9-13-9-15  
2068' FSL & 489' FEL  
NE/SE Section 13-T9S-R15E  
Duchesne Co, Utah  
API #43-013-32459; Lease #UTU-66184

CD 6/22/06

## Ashley Federal 16-13-9-15

Spud Date: 6/23/05

Put on Production: 8/12/05

GL: 6127' KB: 6139'

Initial Production: 31 BOPD,  
14 MCFD, 51 BWPD

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (302.24')

DEPTH LANDED: 314.09' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 160 sxs Class "G", circ. 6 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 141 jts. (5976.61')

DEPTH LANDED: 5975.86' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 325 sxs Prem. Lite II mixed &amp; 450 sxs 50/50 POZ mix.

CEMENT TOP AT: 70' per CBL 8/3/05

TUBING (GI 3/28/12)

SIZE/GRADE/WT.: 2 7/8" / J-55 / 6.5#

NO. OF JOINTS: 180 jts (5634.7')

TUBING ANCHOR: 5646.7' KB

NO. OF JOINTS: 2 jts (62.18')

SEATING NIPPLE: 2 7/8" (1.10')

SN LANDED AT: 5711.68' KB

BLEED NIPPLE: 2-7/8" (0.65')

NO. OF JOINTS: 2 jts (62.79')

NOTCHED COLLAR: 2-7/8" (0.45')

TOTAL STRING LENGTH: EOT @ 5776.67'

SUCKER RODS (GI 3/28/12)

POLISHED ROD: 1 1/2" x 22'

SUCKER RODS: 4' x 7/8" pony rod, 79 x 7/8" guided rods(4per), 142 x 3/4" guided rods(4per), 6 x 1-1/2" weight bars, 6 x 4' x 7/8" stabilizer bars.

PUMP SIZE: 2-1/2" x 1-1/4" x 14' x 16' RHAC

STROKE LENGTH: 86"

PUMP SPEED, SPM: 5

PUMPING UNIT: AMERICAN PRODUCER I C-228-213-86

FRAC JOB

8/8/05 5596'-5688'

**Frac CP2 and CP3 sands as follows:**  
48,881#s of 20/40sand in 437 bbls lightning  
17 frac fluid. Treated @ avg press of 1399,  
w/avg rate of 24.6 bpm. ISIP 2000 psi. Calc  
flush: 5594 gal. Actual flush: 5368 gal.

8/8/05 5462'-5506'

**Frac LODC sands as follows:**  
30,693#s of 20/40 sand in 330 bbls lightning  
17 frac fluid. Treated @ avg press of 1837,  
w/avg rate of 24.9 bpm. ISIP 2200 psi. Calc  
flush: 5460 gal. Actual flush: 5212 gal.

8/9/05 5126'-5166'

**Frac LODC sands as follows:**  
30,385#s of 20/40 sand in 317 bbls  
lightning 17 frac fluid. Treated @ avg press  
of 1882, w/avg rate of 24.9 bpm. ISIP 2750  
psi. Calc flush: 5124 gal. Actual flush: 4885  
gal.

8/9/05 4777'-4786'

**Frac C sands as follows:**  
39,987#s of 20/40 sand in 370 bbls  
lightning 17 frac fluid. Treated @ avg press  
of 1674, w/avg rate of 24.7 bpm. ISIP 1800  
psi. Calc flush: 4775 gal. Actual flush: 4536  
gal.

8/9/05 4666'-4674'

**Frac D2 sands as follows:**  
35,978#s of 20/40 sand in 349 bbls  
lightning 17 frac fluid. Treated @ avg press  
of 1831, w/avg rate of 24.6 bpm. ISIP 1950  
psi. Calc flush: 4664 gal. Actual flush: 4536  
gal.

6/30/08

1/28/09

1/10/10

6/17/2010

7/2/2010

3/30/12

Hole in Tubing. Rod & tubing detail updated.  
Tubing Leak. Updated r & t detail.  
Parted rods. Updated rod and tubing detail.  
Parted rods. Updated rod and tubing detail.  
Parted rods. Updated rod and tubing detail.  
Parted rods: updated rod & tubing detail.

4666'-4674'

4777'-4786'

5126'-5135'

5160'-5166'

5462'-5470'

5500'-5506'

5596'-5600'

Anchor @ 5647'

5672'-5688'

SN @ 5712'

EOT @ 5777'

PBDT @ 5932'

TD @ 6000'

PERFORATION RECORD

8/3/05	5672'-5688'	4 JSPF	64 holes
8/3/05	5596'-5600'	4 JSPF	16 holes
8/8/05	5500'-5506'	4 JSPF	24 holes
8/8/05	5462'-5470'	4 JSPF	32 holes
8/9/05	5160'-5166'	4 JSPF	24 holes
8/9/05	5126'-5135'	4 JSPF	36 holes
8/9/05	4777'-4786'	4 JSPF	36 holes
8/9/05	4666'-4674'	4 JSPF	32 holes



Ashley Federal 16-13-9-15  
682' FSL & 523' FEL  
SE/SE Section 13-T9S-R15E  
Duchesne Co, Utah  
API #43-013-32668; Lease #UTU-68548

## GMBU O-18-9-16

Spud Date: 9/10/12  
Put on Production: 10/18/12  
GL: 6076' KB: 6086'

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7jts  
DEPTH LANDED: 325.42'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160sxs Class "G" cmt, circ 6 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 142jts  
DEPTH LANDED: 6258.19'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 250sxs Premite II & 465sxs 50:50 POZ.  
CEMENT TOP: 102' per CBL 10/9/12

TUBING (KS 10/17/12)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 190jts (5964.3')  
TUBING ANCHOR: 5974.3'  
NO. OF JOINTS: 2jts (62.9')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 6040'  
NO. OF JOINTS: 2jts (62.8')  
NOTCHED COLLAR: 2-7/8" (0.5')  
TOTAL STRING LENGTH: EOT @ 6104'

SUCKER RODS (KS 10/17/12)

POLISHED ROD: 30' x 1-1/2" Polished Rod  
SUCKER RODS: 4', 6', 8' x 7/8" Pony Rod, 78 x 7/8"  
4per Guided Rods, 134 x 3/4" 4per Guided Rods, 28 x 7/8"  
8per Guided Rods  
PUMP SIZE: 2-1/2" x 1-3/4" x 20' x 4' x 21' x 24'  
RHAC  
STROKE LENGTH: 146"  
PUMP SPEED, SPM: 4.0  
PUMPING UNIT: DARCO C-456-365-168

FRAC JOB

6002-6040' **Frac zone as follows:**  
49,733# 20/40 sand in 336 bbls 17# Borate  
Treated @ 3087 avg PSI w/avg rate of  
32 BPM. ISIP 1500 psi.

5852-5847' **Frac zone as follows:**  
57,301# 20/40 sand in 323 bbls 17# Borate  
Treated @ 2639 avg PSI w/avg rate of  
34 BPM. ISIP 1547 psi.

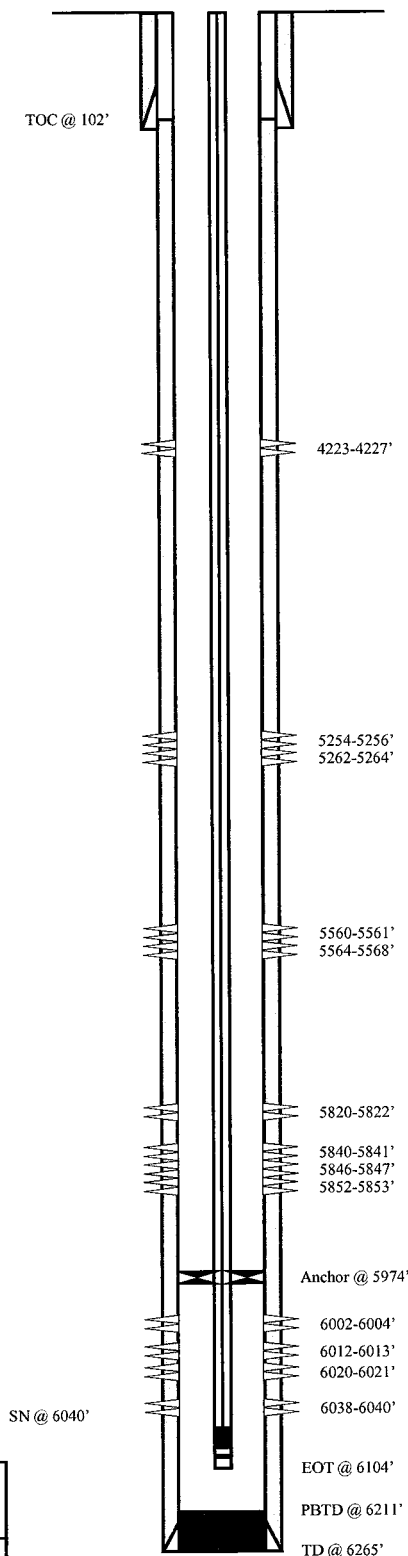
5560-5568' **Frac zone as follows:**  
39,543# 20/40 sand in 241 bbls 17# Borate  
Treated @ 2879 avg PSI w/avg rate of  
33 BPM. ISIP 1682 psi.

5254-5264' **Frac zone as follows:**  
32,279# 20/40 sand in 210 bbls 17# Borate  
Treated @ 3667 avg PSI w/avg rate of  
22 BPM. ISIP 2385 psi.

4223-4227' **Frac zone as follows:**  
28,010# 20/40 sand in 317 bbls 17# Borate  
Treated @ 2690 avg PSI w/avg rate of  
24 BPM. ISIP 1693 psi.

PERFORATION RECORD

4223-4227'	3 JSPF	12 holes
5254-5256'	3 JSPF	6 holes
5262-5264'	3 JSPF	6 holes
5560-5561'	3 JSPF	3 holes
5564-5568'	3 JSPF	12 holes
5820-5822'	3 JSPF	6 holes
5840-5841'	3 JSPF	3 holes
5846-5847'	3 JSPF	3 holes
5852-5853'	3 JSPF	3 holes
6002-6004'	3 JSPF	6 holes
6012-6013'	3 JSPF	3 holes
6020-6021'	3 JSPF	3 holes
6038-6040'	3 JSPF	6 holes



**GMBU O-18-9-16**  
2095' FNL & 404' FEL  
SE/NE Section 13, T9S-R15E  
Duchesne Co, Utah  
API #43-013-51089; Lease #UTU-66184

# FEDERAL 13-18-9-16

Spud Date: 10/04/07  
Put on Production: 11/02/07  
GL: 6126' KB: 6138'

## Injection Wellbore Diagram

### SURFACE CASING

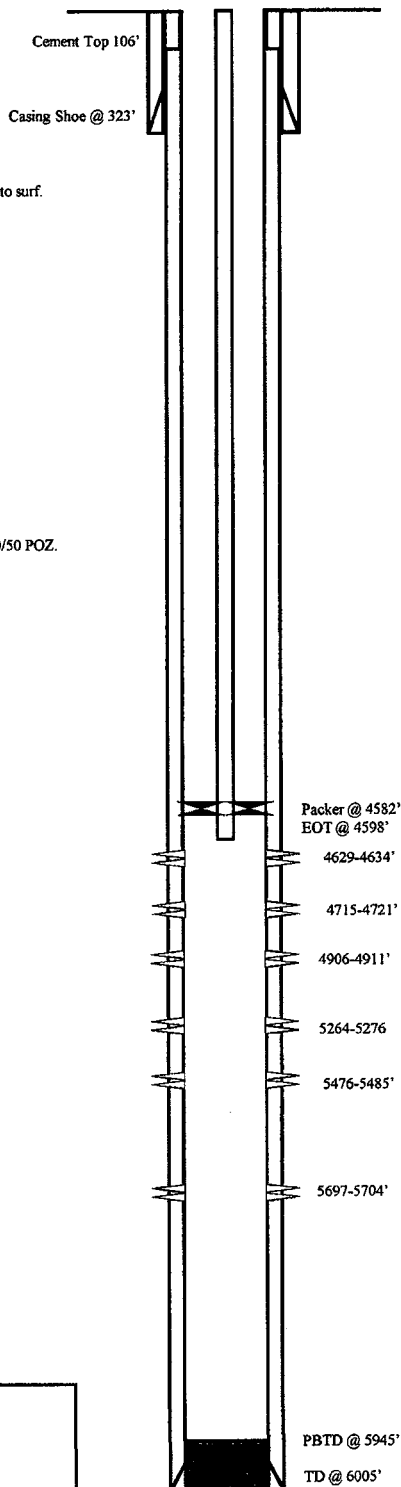
CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (312.56')  
DEPTH LANDED: 323.46' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 5 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 154 jts. (5971.92')  
DEPTH LANDED: 5985.17' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP: 106'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 148 jts (4577.3')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4589.3' KB  
CE @ 4581.62'  
TOTAL STRING LENGTH: EOT @ 4598' KB



### FRAC JOB

10/30/07	5697-5704'	<b>Frac CP3 sands as follows:</b> 14620# 20/40 sand in 297 bbls Lightning 17 frac fluid. Treated @ avg press of 1905 psi w/avg rate of 24.8 BPM. ISIP 1650 psi. Calc flush: 5695 gal. Actual flush: 5191 gal.
10/30/07	5476-5485'	<b>Frac LODC sands as follows:</b> 14860# 20/40 sand in 283 bbl Lightning 17 frac fluid. Treated @ avg press of 2275 psi w/avg rate of 24.8 BPM. ISIP 2160 psi. Calc flush: 5474 gal. Actual flush: 4969 gal.
10/30/07	5264-5276'	<b>Frac LODC sands as follows:</b> 84724# 20/40 sand in 672 bbls Lightning 17 frac fluid. Treated @ avg press of 1940 psi w/avg rate of 24.8 BPM. ISIP 2205 psi. Calc flush: 5262 gal. Actual flush: 4759 gal.
10/30/07	4906-4911'	<b>Frac B2 sands as follows:</b> 19569# 20/40 sand in 313 bbls Lightning 17 frac fluid. Treated @ avg press of 2260 psi w/avg rate of 24.8 BPM. ISIP 1845 psi. Calc flush: 4904 gal. Actual flush: 4402 gal.
10/30/07	4715-4721'	<b>Frac D3 sands as follows:</b> 24711# 20/40 sand in 342 bbls Lightning 17 frac fluid. Treated @ avg press of 1960 psi w/avg rate of 24.8 BPM. ISIP 1890 psi. Calc flush: 4713 gal. Actual flush: 4250 gal.
10/30/07	4629-4634'	<b>Frac D1 sands as follows:</b> 17447# 20/40 sand in 270 bbls Lightning 17 frac fluid. Treated @ avg press of 2298 psi w/avg rate of 24.8 BPM. ISIP 2150 psi. Calc flush: 4627 gal. Actual flush: 4536 gal.
12/15/10		<b>Tubing Leak.</b> Rod & tubing updated.
8/29/11		<b>Tubing Leak.</b> Rod & tubing detail updated.
04/11/12		<b>Convert to Injection Well</b>
04/17/12		<b>Conversion MIT Finalized</b> - update tbg detail

### PERFORATION RECORD

10/25/07	5697-5704'	4 JSPF	28 holes
10/30/07	5476-5485'	4 JSPF	36 holes
10/30/07	5264-5276'	4 JSPF	48 holes
10/30/07	4906-4911'	4 JSPF	20 holes
10/30/07	4715-4721'	4 JSPF	24 holes
10/30/07	4629-4634'	4 JSPF	20 holes

**NEWFIELD**

**FEDERAL 13-18-9-16**

674' FSL & 364' FWL

SW/SW Section 18-T9S-R16E

Duchesne Co, Utah

API #43-013-32999; Lease # UTU-64379

LCN 04/19/12



# GMBU G-18-9-16

Spud Date: 9/12/12  
Put on Production: 10/23/12  
GL: 6083' KB: 6093'

## Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 6jts (266.10')  
DEPTH LANDED: 323.48'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160sxs Class "G" cmt, circ 5 bbls to surf.

### PRODUCTION CASING

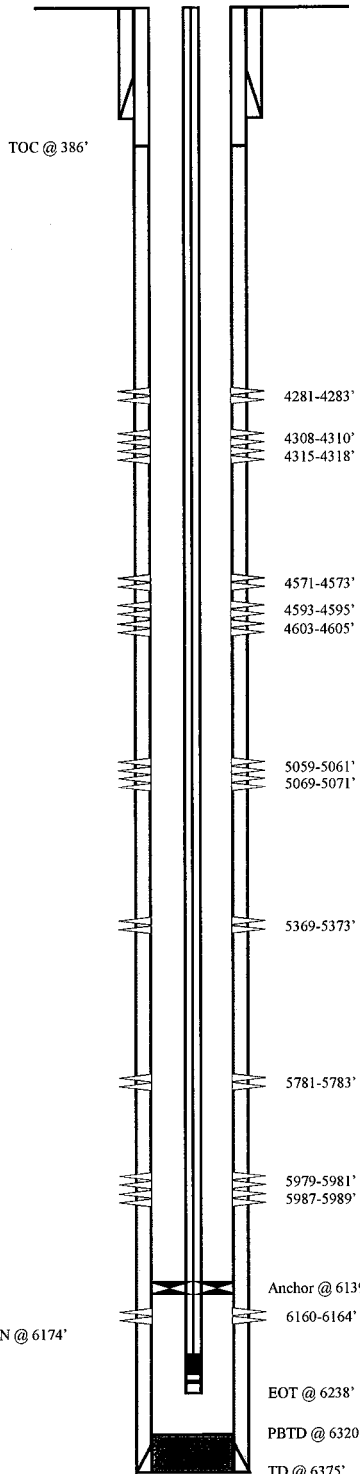
CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 146jts. (6350.28')  
DEPTH LANDED: 6366.89'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 240sxs Premlite II & 470sxs 50:50 POZ.  
CEMENT TOP: 386' per CBL 10/13/12

### TUBING (KS 10/24/12)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 195jts (6126.4')  
TUBING ANCHOR: 6139.4'  
NO. OF JOINTS: 1jt (31.4')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 6173.6'  
NO. OF JOINTS: 2jts (62.8')  
NOTCHED COLLAR: 2-7/8" (0.5')  
TOTAL STRING LENGTH: EOT @ 6238'

### SUCKER RODS (KS 10/24/12)

POLISHED ROD: 30' x 1-1/2" Polished Rods  
SUCKER RODS: 2' x 7/8" Pony Rod, 77 x 7/8" 4per Guided Rods, 138 x 3/4" 4per Guided Rods, 30 x 7/8" 8per Guided Rods  
PUMP SIZE: 2-1/2" x 1-3/4" x 20" RHAC  
STROKE LENGTH: 146"  
PUMP SPEED, SPM: 4.0  
PUMPING UNIT: DARCO C-640-365-168



### FRAC JOB

6160-6164' **Frac zone as follows:**  
17,500# 20/40 sand in 100 bbls 17# Borate Treated @ 3647 avg PSI w/avg rate of 17 BPM. ISIP 1516 psi.

5781-5989' **Frac zone as follows:**  
27,800# 20/40 sand in 192 bbls 17# Borate Treated @ 2251 avg PSI w/avg rate of 20 BPM. ISIP 1700 psi.

5069-5373' **Frac zone as follows:**  
15,000# 20/40 sand in 102 bbls 17# Borate Treated @ 2251 avg PSI w/avg rate of 19 BPM. ISIP 1806 psi.

4593-4605' **Frac zone as follows:**  
90,245# 20/40 sand in 584 bbls 17# Borate Treated @ 2191 avg PSI w/avg rate of 20 BPM. ISIP 2113 psi.

4281-4318' **Frac zone as follows:**  
72,462# 20/40 sand in xxx bbls 17# Borate Treated @ 1931 avg PSI w/avg rate of 18 BPM. ISIP 1725 psi.

### PERFORATION RECORD

4281-4283'	3 JSPP	10/15/12
4308-4310'	3 JSPP	10/15/12
4315-4318'	3 JSPP	10/15/12
4571-4573'	3 JSPP	10/15/12
4593-4595'	3 JSPP	10/15/12
4603-4605'	3 JSPP	10/15/12
5059-5061'	3 JSPP	10/15/12
5069-5071'	3 JSPP	10/15/12
5369-5373'	3 JSPP	10/15/12
5781-5783'	3 JSPP	10/15/12
5979-5981'	3 JSPP	10/15/12
5987-5989'	3 JSPP	10/15/12
6160-6164'	3 JSPP	10/13/12

**NEWFIELD**

**GMBU G-18-9-16**  
1948' FNL & 1972' FWL  
SE/NW Section 18, T9S-R16E  
Duchesne Co, Utah  
API #43-013-51170; Lease #UTU-74390

# NEWFIELD



## GMBU H-18-9-16

Monument Butte - Duchesne County, Utah, USA

Surface location: SE/NW Sec 18, T9S, R16E; 1937' FNL & 1990' FWL

6083' GL 10' KB

API#: 43-013-51171; Lease#: UTU-74390

Mickey Moulton

DLB 11/29/12

Spud Date: 9/12/12; PoP Date: 10/29/12

CASING DETAIL	Casing	Top	Bottom	Size	Wt.	Grade	Drift	Burst	Collapse	ID	bbl/ft	Coupling	Hole
	Surf	10'	312'	8.625"	24#	J-55	7.972"	2,950	1,370	8.097"	2.6749	STC	12.250
	Prod	10'	6,370'	5.5"	15.5#	J-55	4.825"	4,810	4,040	4.950"	0.9997	LTC	7.875
TBG DETAIL	Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID	Packer/Hanger		
	10'	6,013'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,260	7,680	2.441"	Tubing Anchor Set @ 5,914'		
ROD DETAIL	Component			Top	Bottom	Size	Grade	Length	Count	Pump			
	Polish Rod				30'	1 1/2"	Spray Metal	30'	1	Insert Pump: 2.5 Max ID x 1.75 Plunger RHAC @			
	Pony Rod			30'	46'	7/8"	Tenaris D78	16'	2	5,946' 4' Spray Metal .003, CPID Barrel			
	4per Guided Rod			46'	1,946'	7/8"	Tenaris D78	1,900'	76				
	4per Guided Rod			1,946'	5,246'	3/4"	Tenaris D78	3,300'	132				
	8per Guided Rod			5,246'	5,946'	7/8"	Tenaris D78	700'	28				
Stage	Top	Bottom	SPF	Gun Size	Date	Frac Summary							
5	4,286'	4,287'	3	1'	10/16/2012	Formation: GB-4							
	4,303'	4,305'	3	2'	10/16/2012	20/40 White:		157,682 lbs	15% HCL:		0 gals		
	4,313'	4,315'	3	2'	10/16/2012	Pad:		1,504 gals	Treating Fluid:		36,044 gals		
	4,330'	4,333'	3	3'	10/16/2012	Flush:		4,259 gals	Total Load to Rec:		41,807 gals		
						ISIP=		0.880 psi/ft	Max STP:		1,941 psi		
4	4,552'	4,555'	3	3'	10/16/2012	Formation: PB-10							
	4,564'	4,567'	3	3'	10/16/2012	20/40 White:		50,964 lbs	15% HCL:		685 gals		
						Pad:		1,856 gals	Treating Fluid:		11,953 gals		
						Flush:		4,574 gals	Total Load to Rec:		19,068 gals		
						ISIP=		0.940 psi/ft	Max STP:		2,818 psi		
3	5,054'	5,058'	3	4'	10/16/2012	Formation: B-Half							
	5,062'	5,064'	3	2'	10/16/2012	20/40 White:		63,787 lbs	15% HCL:		664 gals		
						Pad:		1,252 gals	Treating Fluid:		14,717 gals		
						Flush:		5,053 gals	Total Load to Rec:		21,685 gals		
						ISIP=		0.920 psi/ft	Max STP:		3,195 psi		
2	5,763'	5,765'	3	2'	10/16/2012	Formation: CP-2 CP-1							
	5,770'	5,771'	3	1'	10/16/2012	20/40 White:		46,720 lbs	15% HCL:		1,172 gals		
	5,793'	5,797'	3	4'	10/16/2012	Pad:		5,179 gals	Treating Fluid:		10,580 gals		
						Flush:		5,792 gals	Total Load to Rec:		22,722 gals		
						ISIP=		0.770 psi/ft	Max STP:		3,750 psi		
1	5,921'	5,925'	3	4'	10/13/2012	Formation: CP-4							
						20/40 White:		26,311 lbs	15% HCL:		1,655 gals		
						Pad:		2,818 gals	Treating Fluid:		6,653 gals		
						Flush:		5,149 gals	Total Load to Rec:		16,275 gals		
						ISIP=		0.730 psi/ft	Max STP:		3,753 psi		
CEMENT	Surf	On 9/14/12 Baker cemented 8 5/8" casing w/ 160 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield and returned 8 bbbs to the pit.											
	Prod	On 10/2/12 Baker pumped 240 sks lead @ 11 ppg w/ 3.53 yield plus 470 sks tail @ 14.4 ppg w/ 1.24 yield. Returned 25 bbbs to the pit. TOC @ Surface.											

8-5/8"Shoe @ 312'

5-1/2"Shoe @ 6370'

TVD @ 6277'

PBTD @ 6323'

BHST = 180°F

8-5/8" Shoe @ 312'

5-1/2" Shoe @ 6370'

TVD @ 6277'  
PBD @ 6323'  
BHST = 180°F

## Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

ATTACHMENT F

1 of 5

multi-chem®

A HALLIBURTON SERVICE

Units of Measurement: **Standard**

## Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**Well Name: **SWDIF**Sample Point: **After Filter**Sample Date: **12/4/2012**Sample ID: **WA-229142**Sales Rep: **Michael McBride**Lab Tech: **Gary Peterson**Scaling potential predicted using ScaleSoftPitzer from  
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	12/5/2012	Cations	mg/L	Anions	mg/L
System Temperature 1 (°F):	120.00	Sodium (Na):	734.93	Chloride (Cl):	1000.00
System Pressure 1 (psig):	60.0000	Potassium (K):	11.00	Sulfate (SO <sub>4</sub> ):	120.00
System Temperature 2 (°F):	210.00	Magnesium (Mg):	26.00	Bicarbonate (HCO <sub>3</sub> ):	366.00
System Pressure 2 (psig):	60.0000	Calcium (Ca):	46.20	Carbonate (CO <sub>3</sub> ):	
Calculated Density (g/ml):	0.999	Strontium (Sr):		Acetic Acid (CH <sub>3</sub> COO)	
pH:	6.80	Barium (Ba):	0.17	Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)	
Calculated TDS (mg/L):	2304.49	Iron (Fe):	0.13	Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	
CO <sub>2</sub> in Gas (%):		Zinc (Zn):	0.02	Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	
Dissolved CO <sub>2</sub> (mg/L):	15.00	Lead (Pb):	0.00	Fluoride (F):	
H <sub>2</sub> S in Gas (%):		Ammonia NH <sub>3</sub> :		Bromine (Br):	
H <sub>2</sub> S in Water (mg/L):	2.50	Manganese (Mn):	0.04	Silica (SiO <sub>2</sub> ):	

## Notes:

9:30

(PTB = Pounds per Thousand Barrels)

Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> 2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.28	10.64	0.00	0.00	0.20	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.28	0.01
200.00	60.00	0.19	7.48	0.00	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.31	0.01
190.00	60.00	0.11	4.25	0.00	0.00	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.35	0.01
180.00	60.00	0.02	0.97	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.39	0.01
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.44	0.01
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.01
150.00	60.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.01
140.00	60.00	0.00	0.00	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.64	0.01
130.00	60.00	0.00	0.00	0.10	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.72	0.01
120.00	60.00	0.00	0.00	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.80	0.01

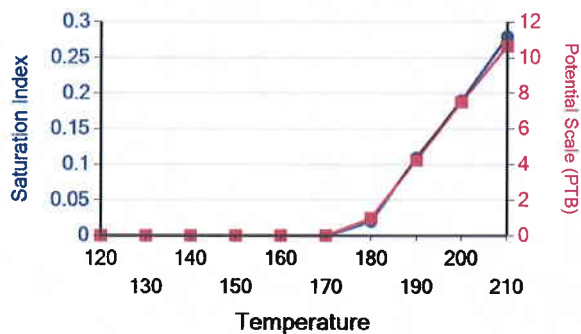
## Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO <sub>4</sub> •0.5H <sub>2</sub> O		Anhydrate CaSO <sub>4</sub>		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

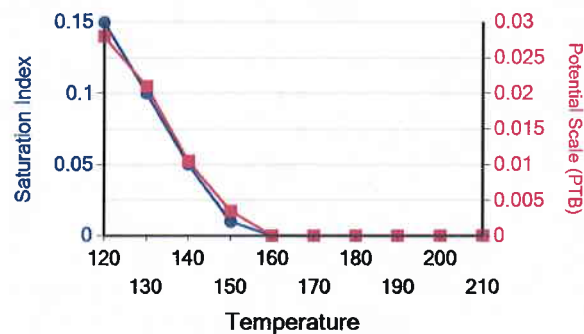
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Sulfide Zinc Sulfide

These scales have positive scaling potential under final temperature and pressure: Barium Sulfate Zinc Sulfide

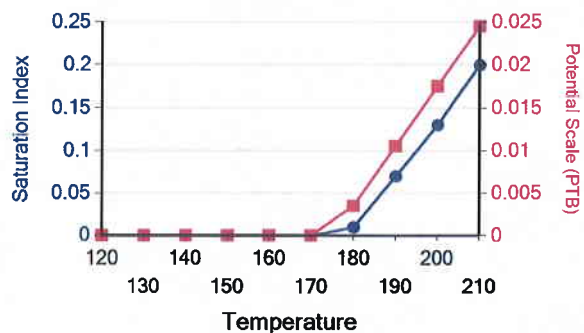
Calcium Carbonate



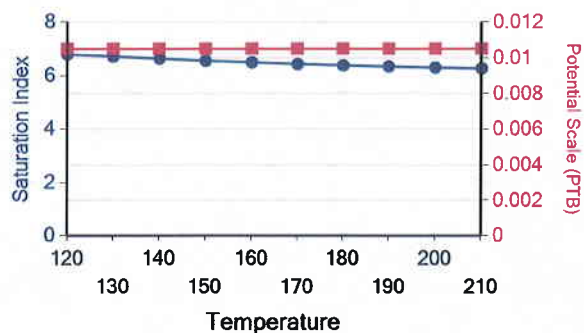
Barium Sulfate



Iron Sulfide



Zinc Sulfide





## Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

Units of Measurement: **Standard**

ATTACHMENT F

3 of 5

multi-chem®

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## Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**Well Name: **FEDERAL 14-18-9-16**Sample Point: **Treater**Sample Date: **4/30/2013**Sample ID: **WA-242482**Sales Rep: **Michael McBride**Lab Tech: **John Keel**Scaling potential predicted using ScaleSoftPitzer from  
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	5/20/2013	Cations	mg/L	Anions	mg/L
System Temperature 1 (°F):	120.00	Sodium (Na):	3544.89	Chloride (Cl):	5000.00
System Pressure 1 (psig):	60.0000	Potassium (K):	12.94	Sulfate (SO <sub>4</sub> ):	13.00
System Temperature 2 (°F):	210.00	Magnesium (Mg):	21.24	Bicarbonate (HCO <sub>3</sub> ):	1098.00
System Pressure 2 (psig):	60.0000	Calcium (Ca):	12.94	Carbonate (CO <sub>3</sub> ):	
Calculated Density (g/ml):	1.004	Strontium (Sr):	3.76	Acetic Acid (CH <sub>3</sub> COO)	
pH:	7.50	Barium (Ba):	0.73	Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)	
Calculated TDS (mg/L):	9789.81	Iron (Fe):	4.59	Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	
CO <sub>2</sub> in Gas (%):		Zinc (Zn):	0.16	Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	
Dissolved CO <sub>2</sub> (mg/L):	80.00	Lead (Pb):	0.01	Fluoride (F):	
H <sub>2</sub> S in Gas (%):		Ammonia NH <sub>3</sub> :		Bromine (Br):	
H <sub>2</sub> S in Water (mg/L):	5.00	Manganese (Mn):	58.05	Silica (SiO <sub>2</sub> ):	19.50

## Notes:

AI=17

(PTB = Pounds per Thousand Barrels)

Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> 2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.61	7.94	0.00	0.00	2.60	2.52	2.22	3.32	0.00	0.00	0.00	0.00	0.00	0.00	7.91	0.08
200.00	60.00	0.54	7.31	0.00	0.00	2.55	2.52	2.14	3.31	0.00	0.00	0.00	0.00	0.00	0.00	7.96	0.08
190.00	60.00	0.46	6.61	0.00	0.00	2.51	2.51	2.06	3.31	0.00	0.00	0.00	0.00	0.00	0.00	8.02	0.08
180.00	60.00	0.39	5.83	0.00	0.00	2.48	2.51	1.98	3.30	0.00	0.00	0.00	0.00	0.00	0.00	8.09	0.08
170.00	60.00	0.31	4.97	0.00	0.00	2.45	2.51	1.90	3.29	0.00	0.00	0.00	0.00	0.00	0.00	8.16	0.08
160.00	60.00	0.24	4.03	0.00	0.00	2.42	2.51	1.82	3.28	0.00	0.00	0.00	0.00	0.00	0.00	8.24	0.08
150.00	60.00	0.17	3.03	0.00	0.00	2.41	2.51	1.74	3.27	0.00	0.00	0.00	0.00	0.00	0.00	8.32	0.08
140.00	60.00	0.11	1.96	0.00	0.00	2.39	2.51	1.66	3.26	0.00	0.00	0.00	0.00	0.00	0.00	8.42	0.08
130.00	60.00	0.05	0.86	0.00	0.00	2.39	2.51	1.58	3.24	0.00	0.00	0.00	0.00	0.00	0.00	8.52	0.08
120.00	60.00	0.00	0.00	0.00	0.00	2.39	2.51	1.49	3.22	0.00	0.00	0.00	0.00	0.00	0.00	8.63	0.08

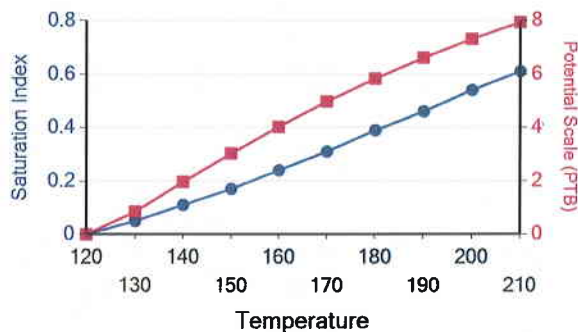
## Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO <sub>4</sub> ·0.5H <sub>2</sub> O		Anhydrate CaSO <sub>4</sub>		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.09	7.77	0.00	3.02	17.13	0.45	2.74	7.71	3.56
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.08	7.89	0.00	2.45	14.48	0.10	0.76	7.26	3.55
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.08	8.02	0.00	1.87	11.42	0.00	0.00	6.80	3.54
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.07	8.16	0.00	1.29	8.03	0.00	0.00	6.34	3.53
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.06	8.31	0.00	0.70	4.44	0.00	0.00	5.89	3.51
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.04	8.47	0.00	0.11	0.80	0.00	0.00	5.43	3.49
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.02	8.64	0.00	0.00	0.00	0.00	0.00	4.97	3.46
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.83	0.00	0.00	0.00	0.00	0.00	4.53	3.41
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00	0.00	4.08	3.34
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.24	0.00	0.00	0.00	0.00	0.00	3.65	3.25

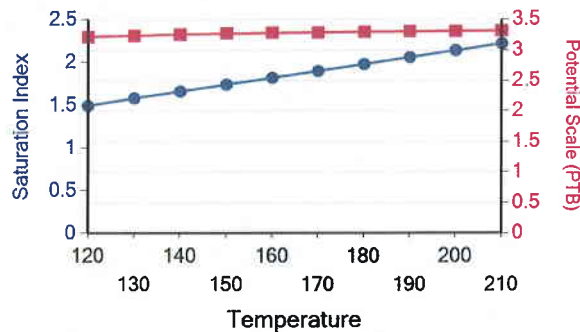
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Iron Sulfide Iron Carbonate Zinc Sulfide Lead Sulfide Fe Silicate

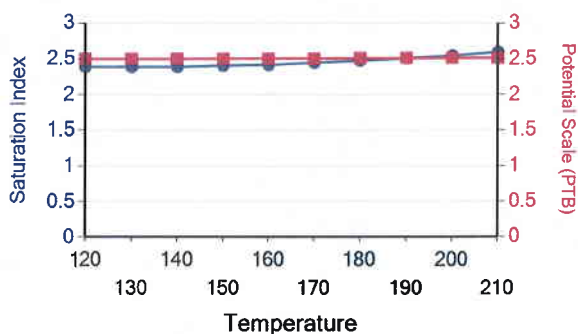
Calcium Carbonate



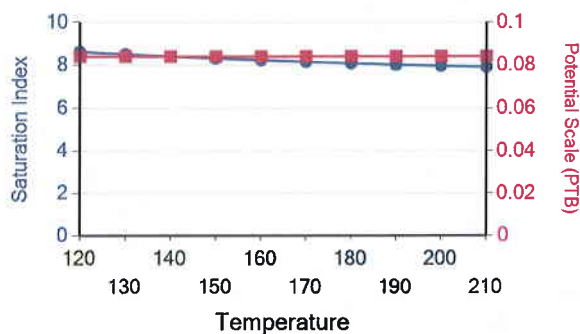
Iron Carbonate



Iron Sulfide

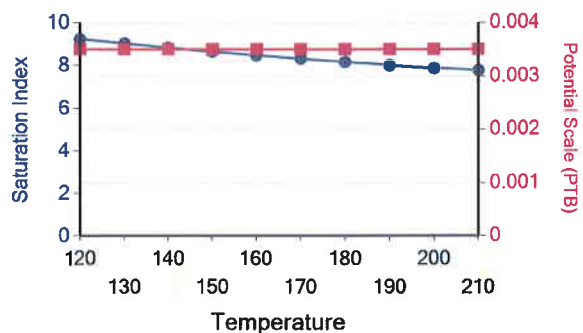


Zinc Sulfide

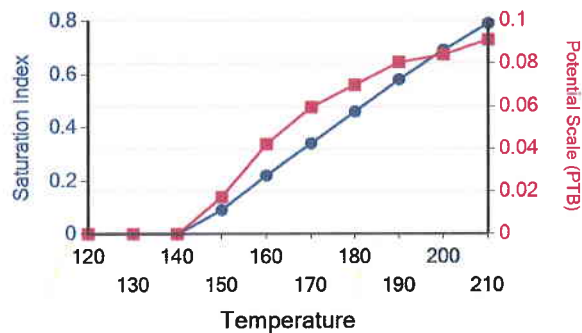


## Water Analysis Report

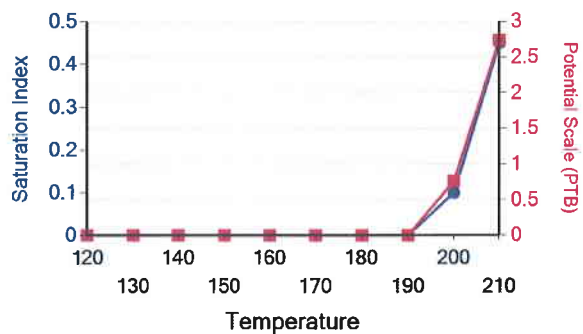
Lead Sulfide



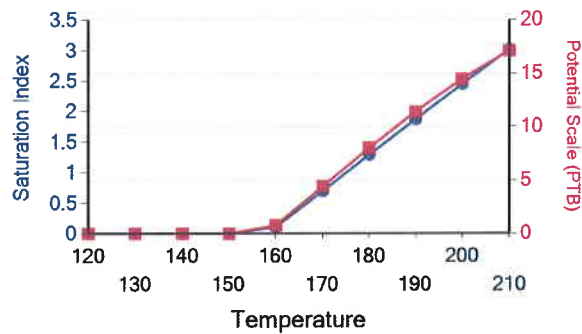
Zinc Carbonate



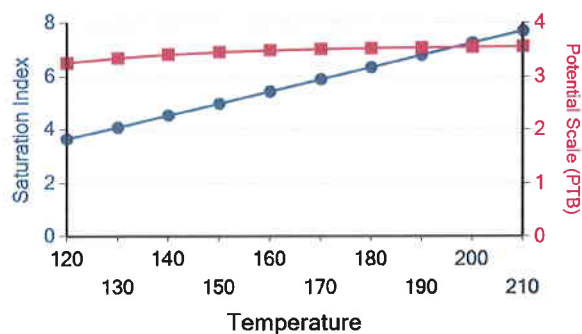
Ca Mg Silicate



Mg Silicate



Fe Silicate



# Attachment "G"

## Federal #14-18-9-16 Proposed Maximum Injection Pressure

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5308	5330	5319	2105	0.83	2071
5146	5155	5151	2344	0.89	2311
4878	4941	4910	1949	0.83	1917
4790	4806	4798	1858	0.82	1827
4660	4716	4688	2427	0.95	2397
4128	4140	4134	1814	0.87	1787
				Minimum	<u>1787</u>

### Calculation of Maximum Surface Injection Pressure

$$P_{max} = (\text{Frac Grad} - (0.433 \times 1.015)) \times \text{Depth of Top Perf}$$
 where pressure gradient for the fresh water is .433 psi/ft and  
 specific gravity of the injected water is 1.015.

$$\text{Frac Gradient} = (\text{ISIP} + (0.433 \times \text{Top Perf.})) / \text{Top Perf.}$$

**Please note:** These are existing perforations; additional perforations may be added during the actual conversion procedure.





10/12

## DAILY COMPLETION REPORT

WELL NAME: Fed 14-18-9-16 Report Date: 16-Oct-07 Day: 1  
 Operation: Completion Rig: Rigless

## WELL STATUS

Surf Csg: 8 5/8' @ 321' Prod Csg: 5 1/2" @ 5957' Csg PBTD: 5881' WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD:

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
			LODC	5308-5330'	4/88

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 15-Oct-07 SITP: SICP: 0

Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5881' & cement top @ 114'. Perforate stage #1. LODC sds @ 5308- 30' w/ 3 1/8" slick guns (19 gram, .49" HE, 120 , 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 88 shots. 140 BWTR. SIFN.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 140 Starting oil rec to date:  
 Fluid lost/recovered today: 0 Oil lost/recovered today:  
 Ending fluid to be recovered: 140 Cum oil recovered:  
 IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

## STIMULATION DETAIL

## COSTS

STIMULATION DETAIL	COSTS
Base Fluid used: Job Type:	Weatherford BOP
Company:	NPC NU crew
Procedure or Equipment detail:	NDSI trucking
	Perforators LLC
	Drilling cost
	Zubaita hot oil
	Location preparation
	NPC wellhead
	Benco - anchors
	Admin. Overhead
	NPC Supervisor

Max TP: Max Rate: Total fluid pmpd:  
 Avg TP: Avg Rate: Total Prop pmpd:  
 ISIP: 5 min: 10 min: 15 min:

Completion Supervisor: Orson Barney

DAILY COST: \$0  
 TOTAL WELL COST:



## DAILY COMPLETION REPORT

WELL NAME: Fed 14-18-9-16 Report Date: 18-Oct-07 Day: 2a  
 Operation: Completion Rig: Rigless

## WELL STATUS

Surf Csg: 8 5/8' @ 321' Prod Csg: 5 1/2" @ 5957' Csg PBTD: 5881' WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD:

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
			LODC	5308-5330'	4/88

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 17-Oct-07 SITP:  SICP: 0 psi

Day 2a.

RU BJ Services. 0 psi on well. Frac LODC sds w/ 100,563#'s of 20/40 sand in 746 bbls of Lightning 17 fluid. Broke @ 2819 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1696 psi @ ave rate of 23 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 2105 psi. Leave pressure on well. 886 BWTR. See Day 2b.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 140 Starting oil rec to date:   
 Fluid lost/recovered today: 746 Oil lost/recovered today:   
 Ending fluid to be recovered: 886 Cum oil recovered:   
 IFL:  FFL:  FTP:  Choke:  Final Fluid Rate:  Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services

Procedure or Equipment detail: LODC sands

780 gals of pre-pad of 4% Techni-Hib 767W

732 gals of flush spacer

7500 gals of pad

5000 gals W/ 1-5 ppg of 20/40 sand

10000 gals W/ 5-8 ppg of 20/40 sand

2037 gals W/ 8 ppg of 20/40 sand

Flush W/ 504 gals of 15% HCL acid

Flush W/ 4796 gals of slick water

\*\*Flush called @ blender--includes 2 bbls pump/line volume\*\*

Max TP: 1918 Max Rate: 23.1 BPM Total fluid pmpd: 746 bbls

Avg TP: 1698 Avg Rate: 23 BPM Total Prop pmpd: 100,563#'s

ISIP: 2105 5 min:  10 min:  FG: .83

Completion Supervisor: Orson Barney

## COSTS

BJ Services-LODC

CD wtr & trucking

NPC fuel gas

Weatherford tools/serv

NPC trucking

NPC supervision

DAILY COST:  \$0

TOTAL WELL COST:  \$0



## DAILY COMPLETION REPORT

WELL NAME: Fed 14-18-9-16 Report Date: 18-Oct-07 Day: 2b  
 Operation: Completion Rig: Rigless

## WELL STATUS

Surf Csg: 8 5/8' @ 321' Prod Csg: 5 1/2" @ 5957' Csg PBTD: 5881' WL  
 Tbg: Size: \_\_\_\_\_ Wt: \_\_\_\_\_ Grd: \_\_\_\_\_ Pkr/EOT @: \_\_\_\_\_ BP/Sand PBTD: 5260'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
			A3 sds	5146-5155'	4/36
			LODC	5308-5330'	4/88

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 17-Oct-07 SITP: \_\_\_\_\_ SICP: 1468 psi

Day 2b.

RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 9' perf gun Set plug @ 5260'. Perforate A3 sds @ 5146- 55' w/ 3-1/8" Slick Guns w/ 4 spf for total of 36 shots. RU BJ Services 1468 psi on well. Frac A3 sds w/ 60,790#'s of 20/40 sand in 549 bbls of Lightning 17 fluid. Broke @ 2752 psi Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2146 psi @ ave rate of 23 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 2344 psi. Leave pressure on well. 1435 BWTR See Day 2c.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 886 Starting oil rec to date: \_\_\_\_\_  
 Fluid lost/recovered today: 549 Oil lost/recovered today: \_\_\_\_\_  
 Ending fluid to be recovered: 1435 Cum oil recovered: \_\_\_\_\_  
 IFL: \_\_\_\_\_ FFL: \_\_\_\_\_ FTP: \_\_\_\_\_ Choke: \_\_\_\_\_ Final Fluid Rate: \_\_\_\_\_ Final oil cut: \_\_\_\_\_

## STIMULATION DETAIL

## COSTS

Base Fluid used: Lightning 17 Job Type: Sand frac

Company: BJ Services

Procedure or Equipment detail: A3 sands

780 gals of pre-pad of 4% Techni-Hib 767W

2160 gals of flush spacer

4600 gals of pad

3000 gals W/ 1-5 ppg of 20/40 sand

6000 gals W/ 5-8 ppg of 20/40 sand

1369 gals W/ 8 ppg of 20/40 sand

Flush W/ 504 gals of 15% HCL acid

Flush W/ 4645 gals of slick water

**\*\*Flush called @ blender--includes 2 bbls pump/line volume\*\***

Max TP: 2407 Max Rate: 23.1 BPM Total fluid pmpd: 549 bbls

Avg TP: 2146 Avg Rate: 23 BPM Total Prop pmpd: 60,790#'s

ISIP: 2344 5 min: \_\_\_\_\_ 10 min: \_\_\_\_\_ FG: .89

Completion Supervisor: Orson Barney

BJ Services-A3

CD wtr & trucking

NPC fuel gas

Weatherford tools/serv

Lone Wolf WL

NPC supervision

DAILY COST: \_\_\_\_\_ \$0

TOTAL WELL COST: \_\_\_\_\_ \$0

## NEWFIELD



ATTACHMENT G-1

4 of 12

## DAILY COMPLETION REPORT

WELL NAME: Fed 14-18-9-16 Report Date: 18-Oct-07 Day: 2c  
 Operation: Completion Rig: Rigless

## WELL STATUS

Surf Csg: 8 5/8' @ 321' Prod Csg: 5 1/2" @ 5957' Csg PBTD: 5881' WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD: 5040'  
 BP: 5260'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
			B2 sds	<u>4937-4941'</u>	<u>4/16</u>
			A3 sds	<u>5146-5155'</u>	<u>4/36</u>
			LODC	<u>5308-5330'</u>	<u>4/88</u>
B.5 sds	<u>4878-4785'</u>	<u>4/28</u>			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 17-Oct-07 SITP: SICP: 1950 psi

Day 2c.

RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 4' & 7' per gun. Set plug @ 5040'. Perforate B2 sds @ 4937-41', B.5 sds @ 4878- 85' w/ 3-1/8" Slick Guns w/ 4 spf for total of 44 shots. RU BJ Services. 1950 psi on well. Frac B2 & B.5 sds w/ 24,732#'s of 20/40 sand in 353 bbls of Lightning 17 fluid. Broke @ 2679 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2039 psi @ ave rate of 23 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 1949 psi Leave pressure on well. 1788 BWTR. See Day 2d.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1435 Starting oil rec to date:   
 Fluid lost/recovered today: 353 Oil lost/recovered today:   
 Ending fluid to be recovered: 1788 Cum oil recovered:   
 IFL:  FFL:  FTP:  Choke:  Final Fluid Rate:  Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services  
 Procedure or Equipment detail: B.5 & B2 sands  
780 gals of pre-pad of 4% Techni-Hib 767W  
942 gals of flush spacer  
2500 gals of pad  
1915 gals W/ 1-4 ppg of 20/40 sand  
3788 gals W/ 4-6.5 ppg of 20/40 sand  
Flush W/ 504 gals of 15% HCL acid  
Flush W/ 4389 gals of slick water

## COSTS

BJ Services-B.5/B2  
CD wtr & trucking  
NPC fuel gas  
Weatherford tools/serv  
Lone Wolf WL  
NPC supervision

\*\*Flush called @ blender--includes 2 bbls pump/line volume\*\*

Max TP: 2180 Max Rate: 23.1 BPM Total fluid pmpd: 353 bbls  
 Avg TP: 2039 Avg Rate: 23 BPM Total Prop pmpd: 24,732#'s  
 ISIP: 1949 5 min:  10 min:  FG: .83  
 Completion Supervisor: Orson Barney

DAILY COST: \$0  
 TOTAL WELL COST: \$0



## DAILY COMPLETION REPORT

WELL NAME: Fed 14-18-9-16 Report Date: 18-Oct-07 Day: 2d  
 Operation: Completion Rig: Rigless

## WELL STATUS

Surf Csg: 8 5/8' @ 321' Prod Csg: 5 1/2" @ 5957' Csg PBTD: 5881' WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD: 4850'  
 BP: 5040', 5260'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
			B2 sds	<u>4937-4941'</u>	<u>4/16</u>
			A3 sds	<u>5146-5155'</u>	<u>4/36</u>
			LODC	<u>5308-5330'</u>	<u>4/88</u>
C sds	<u>4790-4806'</u>	<u>4/64</u>			
B.5 sds	<u>4878-4785'</u>	<u>4/28</u>			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 17-Oct-07 SITP: SICP: 1625 psi

Day 2d.

RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 16' per gun. Set plug @ 4850'. Perforate C sds @ 4790-4806' w/ 3-1/8" Slick Guns w/ 4 spf for total of 64 shots. RU B. Services. 1625 psi on well. Frac C sds w/ 95,455#'s of 20/40 sand in 728 bbls of Lightning 17 fluid. Broke @ 3846 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1858 psi @ ave rate of 23 BPM. Pumped 504 gals of 15% HCL in flush for Stage #5. ISIP 2128 psi. Leave pressure on well. 2516 BWTR. See Day 2e.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1788 Starting oil rec to date:   
 Fluid lost/recovered today: 728 Oil lost/recovered today:   
 Ending fluid to be recovered: 2516 Cum oil recovered:   
 IFL:  FFL:  FTP:  Choke:  Final Fluid Rate:  Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services

Procedure or Equipment detail: C sands

780 gals of pre-pad of 4% Techni-Hib 767W

778 gals of flush spacer

7200 gals of pad

4944 gals W/ 1-5 ppg of 20/40 sand

9872 gals W/ 5-8 ppg of 20/40 sand

2176 gals W/ 8 ppg of 20/40 sand

Flush W/ 504 gals of 15% HCL acid

Flush W/ 4305 gals of slick water

\*\*Flush called @ blender--includes 2 bbls pump/line volume\*\*

Max TP: 2132 Max Rate: 23.1 BPM Total fluid pmpd: 728 bbls

Avg TP: 1858 Avg Rate: 23 BPM Total Prop pmpd: 95,455#'s

ISIP: 2128 5 min:  10 min:  FG: .88

Completion Supervisor: Orson Barney

## COSTS

BJ Services-C  
 CD wtr & trucking  
 Zubiate hot oil wtr heat  
 Weatherford tools/serv  
 Lone Wolf WL  
 NPC supervision

DAILY COST: \$0

TOTAL WELL COST: \$0



## DAILY COMPLETION REPORT

WELL NAME: Fed 14-18-9-16 Report Date: 18-Oct-07 Day: 2e  
 Operation: Completion Rig: Rigless

## WELL STATUS

Surf Csg: 8 5/8' @ 321' Prod Csg: 5 1/2" @ 5957' Csg PBTD: 5881' WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD: 4760'  
 BP: 4850', 5040', 5260'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
			B2 sds	<u>4937-4941'</u>	<u>4/16</u>
D1 sds	<u>4660-4666'</u>	<u>4/24</u>	A3 sds	<u>5146-5155'</u>	<u>4/36</u>
D2 sds	<u>4708-4716'</u>	<u>4/32</u>	LODC	<u>5308-5330'</u>	<u>4/88</u>
C sds	<u>4790-4806'</u>	<u>4/64</u>			
B.5 sds	<u>4878-4785'</u>	<u>4/28</u>			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 17-Oct-07 SITP: SICP: 1800 psi

Day 2e.

RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 8' & 6' per gun. Set plug @ 4760'. Perforate D2 sds @ 4708-4716', D1 sds @ 4660- 4666' w/ 3-1/8" Slick Guns w/ 4 spf for tota of 56 shots. RU BJ Services. 1800 psi on well. Frac D1 & D2 sds w/ 70,174#'s of 20/40 sand in bbls o Lightning 17 fluid. Broke @ 3839 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treater w/ ave pressure of 2111 psi @ ave rate of 23 BPM. Pumped 504 gals of 15% HCL in flush for Stage #6. ISIP 2427 psi. Leave pressure on well. 3087 BWTR. See Day 2f.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 2516 Starting oil rec to date:   
 Fluid lost/recovered today: 571 Oil lost/recovered today:   
 Ending fluid to be recovered: 3087 Cum oil recovered:   
 IFL:  FFL:  FTP:  Choke:  Final Fluid Rate:  Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services

Procedure or Equipment detail: D1 & D2 sands

780 gals of pre-pad of 4% Techni-Hib 767W

774 gals of flush spacer

5400 gals of pad

3625 gals W/ 1-5 ppg of 20/40 sand

7250gals W/ 5-8 ppg of 20/40 sand

1512 gals W/ 8 ppg of 20/40 sand

Flush W/ 504 gals of 15% HCL acid

Flush W/ 4154 gals of slick water

\*\*Flush called @ blender--includes 2 bbls pump/line volume\*\*

Max TP: 2480 Max Rate: 23.1 BPM Total fluid pmpd: 571 bbls

Avg TP: 2111 Avg Rate: 23 BPM Total Prop pmpd: 70,174#'s

ISIP: 2427 5 min:  10 min:  FG: .95

Completion Supervisor: Orson Barney

## COSTS

BJ Services-D1/D2

CD wtr & trucking

Zubiate hot oil wtr heat

Weatherford tools/serv

Lone Wolf WL

NPC supervision

DAILY COST: \$0

TOTAL WELL COST: \$0



7012

## DAILY COMPLETION REPORT

WELL NAME: Fed 14-18-9-16 Report Date: 18-Oct-07 Day: 2f  
 Operation: Completion Rig: Rigless

## WELL STATUS

Surf Csg: 8 5/8' @ 321' Prod Csg: 5 1/2" @ 5957' Csg PBTD: 5881' WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD: 4240'  
 BP: 4760', 4850', 5040', 5260'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB4 sds	4128-4140'	4/48	B2 sds	4937-4941'	4/16
D1 sds	4660-4666'	4/24	A3 sds	5146-5155'	4/36
D2 sds	4708-4716'	4/32	LODC	5308-5330'	4/88
C sds	4790-4806'	4/64			
B.5 sds	4878-4785'	4/28			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 17-Oct-07 SITP: SICP: 2072 psi

Day 2f.

RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug 12' perf gun Set plug @ 4240'. Perforate GB4 sds @ 4128-40' w/ 3-1/8" Slick Guns w/ 4 spf for total of 48 shots. RU BJ Services 2072 psi on well. Frac GB4 sds w/ 88,281#'s of 20/40 sand in 658 bbls of Lightning 17 fluid. Broke @ 3950 psi Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1695 psi @ ave rate of 23 BPM. ISIP 1814 psi. Begin immediate flowback on 12/64 choke @ 1 BPM. Flowed for 7 hrs & died. Rec. 395 BTF. SIWFN w/ 3350 BWTR.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 3087 Starting oil rec to date:   
 Fluid lost/recovered today: 263 Oil lost/recovered today:   
 Ending fluid to be recovered: 3350 Cum oil recovered:   
 IFL:  FFL:  FTP:  Choke:  Final Fluid Rate:  Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services

Procedure or Equipment detail: GB4 sands  
780 gals of pre-pad of 4% Techni-Hib 767W  
984 gals of flush spacer  
6400 gals of pad  
4319 gals W/ 1-5 ppg of 20/40 sand  
8622gals W/ 5-8 ppg of 20/40 sand  
2503 gals W/ 8 ppg of 20/40 sand  
Flush W/ 4032 gals of slick water

## COSTS

BJ Services-GB4  
 CD wtr & trucking  
 Zubiate hot oil wtr heat  
 Weatherford tools/serv  
 Lone Wolf WL  
 NPC supervision  
 NPC trucking  
 Unichem chemicals  
 Monks pit reclaim  
 NPC sfc equipment  
 Boren welding/labor  
 NDSI wtr disposal  
 NPC flowback hand  
 CD wtr transfer

Max TP: 1936 Max Rate: 23.1 BPM Total fluid pmpd: 658 bbls  
 Avg TP: 1695 Avg Rate: 23 BPM Total Prop pmpd: 88,281#'s  
 ISIP: 1814 5 min:  10 min:  FG: .87  
 Completion Supervisor: Orson Barney

DAILY COST: \$0  
 TOTAL WELL COST: \$0



## DAILY COMPLETION REPORT

WELL NAME: Fed 14-18-9-16 Report Date: 19-Oct-07 Day: 3  
 Operation: Completion Rig: Western #4

## WELL STATUS

Surf Csg: 8 5/8' @ 321' Prod Csg: 5 1/2" @ 5957' Csg PBTD: 5881' WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD: 4240'  
 BP: 4760', 4850', 5040', 5260'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB4 sds	4128-4140'	4/48	B2 sds	4937-4941'	4/16
D1 sds	4660-4666'	4/24	A3 sds	5146-5155'	4/36
D2 sds	4708-4716'	4/32	LODC	5308-5330'	4/88
C sds	4790-4806'	4/64			
B.5 sds	4878-4785'	4/28			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 18-Oct-07 SITP: SICP: 210 psi

MIRU Western #4. 210 psi on well. Bleed off pressure. Flowed back 15 bbls. ND Cameron BOP & 5M WH. NU 3M WH & Shaffer BOP. SIWFN w/ 3335 BWTR.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 3350 Starting oil rec to date: \_\_\_\_\_  
 Fluid lost/recovered today: 15 Oil lost/recovered today: \_\_\_\_\_  
 Ending fluid to be recovered: 3335 Cum oil recovered: \_\_\_\_\_  
 IFL: \_\_\_\_\_ FFL: \_\_\_\_\_ FTP: \_\_\_\_\_ Choke: \_\_\_\_\_ Final Fluid Rate: \_\_\_\_\_ Final oil cut: \_\_\_\_\_

## STIMULATION DETAIL

Base Fluid used: \_\_\_\_\_ Job Type: \_\_\_\_\_

Company: \_\_\_\_\_

Procedure or Equipment detail: \_\_\_\_\_  
 \_\_\_\_\_  
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## COSTS

Western #4 \_\_\_\_\_

Weatherford BOP \_\_\_\_\_

NPC location cleanup \_\_\_\_\_

Mt West sanitation \_\_\_\_\_

B&L-new J-55 tbg \_\_\_\_\_

NPC supervision \_\_\_\_\_  
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 \_\_\_\_\_

Max TP: \_\_\_\_\_ Max Rate: \_\_\_\_\_ Total fluid pmpd: \_\_\_\_\_

Avg TP: \_\_\_\_\_ Avg Rate: \_\_\_\_\_ Total Prop pmpd: \_\_\_\_\_

ISIP: \_\_\_\_\_ 5 min: \_\_\_\_\_ 10 min: \_\_\_\_\_ FG: \_\_\_\_\_

Completion Supervisor: Orson Barney

DAILY COST: \$0

TOTAL WELL COST: \$0



## NEWFIELD



ATTACHMENT G-1

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## DAILY COMPLETION REPORT

WELL NAME: Fed 14-18-9-16 Report Date: 22-Oct-07 Day: 4  
 Operation: Completion Rig: Western #4

## WELL STATUS

Surf Csg: 8 5/8' @ 321' Prod Csg: 5 1/2" @ 5957' Csg PBTD: 5881' WL  
 Tbg: Size: 2 7/8" Wt: 6.5# Grd: J-55 Pkr/EOT @: 5271' BP/Sand PBTD:  
 BP: 4760', 4850', 5040', 5260'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB4 sds	4128-4140'	4/48	B2 sds	4937-4941'	4/16
D1 sds	4660-4666'	4/24	A3 sds	5146-5155'	4/36
D2 sds	4708-4716'	4/32	LODC	5308-5330'	4/88
C sds	4790-4806'	4/64			
B.5 sds	4878-4785'	4/28			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 19-Oct-07 SITP: SICP: 120 psi

120 psi on well. Bleed off pressure. Talley, PU & RIH w/ 4 3/4" chomp bit, Bit sub & 2 7/8" J-55 tbg. Tagged sand @ 4116'. RU Nabors power swivel. Drill out plugs & circulate sand. Sand @ 4116', Plug @ 4240' (Drill out in 20 mins) Plug @ 4760', No sand (Drilled out in 15 mins.). Sand @ 4772', Plug @ 4850' (Drill out in 20 mins). Sand @ 4979' Plug @ 5040' (Drill out in 17 mins). Sand @ 5245', Plug @ 5260' (Drilled out in 20 mins). Circulate well clean w/ EOT @ 5271'. Gained a total of 65 BTF while drilling. SIWFN w/ 3270 BWTR.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 3335 Starting oil rec to date:  
 Fluid lost/recovered today: 65 Oil lost/recovered today:  
 Ending fluid to be recovered: 3270 Cum oil recovered:  
 IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

## STIMULATION DETAIL

## COSTS

Base Fluid used: Job Type: Western #4  
 Company: Weatherford BOP  
 Procedure or Equipment detail: Nabors power swivel

NDSI trucking  
 NPC wtr & trucking  
 NPC supervision  
 NDSI rig pump

Max TP: Max Rate: Total fluid pmpd:  
 Avg TP: Avg Rate: Total Prop pmpd:  
 ISIP: 5 min: 10 min: FG:  
 Completion Supervisor: Orson Barney

DAILY COST: \$0  
 TOTAL WELL COST: \$0

## NEWFIELD



ATTACHMENT G-1

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## DAILY COMPLETION REPORT

WELL NAME: Fed 14-18-9-16 Report Date: 23-Oct-07 Day: 5  
 Operation: Completion Rig: Western #4

## WELL STATUS

Surf Csg: 8 5/8' @ 321' Prod Csg: 5 1/2" @ 5957' Csg PBTD: 5917'  
 Tbg: Size: 2 7/8" Wt: 6.5# Grd: J-55 Pkr/EOT @: 5856' BP/Sand PBTD: 5917'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB4 sds	4128-4140'	4/48	B2 sds	4937-4941'	4/16
D1 sds	4660-4666'	4/24	A3 sds	5146-5155'	4/36
D2 sds	4708-4716'	4/32	LODC	5308-5330'	4/88
C sds	4790-4806'	4/64			
B.5 sds	4878-4785'	4/28			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 22-Oct-07 SITP: 100 SICP: 130 psi

100 psi on to tbg, 130 psi on csg. Bleed off pressure. Pumped 70 BW down tbg to kill well. Con't TIH w/ tbg Tagged sand @ 5776'. RU Nabors power swivel. Clean out to PBTD @ 5917'. LD 2- jts. EOT @ 5856'. RU swat equipment. IFL @ sfc. Made 9 runs. Rec. 80 BTF. FFL @ 700', Trace oil & sand. Down for rig repairs (Los bearings in right angle drive). SIWFN w/ 3175 BWTR.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 3270 Starting oil rec to date: \_\_\_\_\_  
 Fluid lost/recovered today: 95 Oil lost/recovered today: \_\_\_\_\_  
 Ending fluid to be recovered: 3175 Cum oil recovered: \_\_\_\_\_  
 IFL: \_\_\_\_\_ FFL: \_\_\_\_\_ FTP: \_\_\_\_\_ Choke: \_\_\_\_\_ Final Fluid Rate: \_\_\_\_\_ Final oil cut: \_\_\_\_\_

## STIMULATION DETAIL

## COSTS

Base Fluid used: \_\_\_\_\_ Job Type: \_\_\_\_\_ Western #4  
 Company: \_\_\_\_\_ Weatherford BOP  
 Procedure or Equipment detail: \_\_\_\_\_ Nabors power swivel

NPC wtr &amp; trucking

NPC supervision

Max TP: \_\_\_\_\_ Max Rate: \_\_\_\_\_ Total fluid pmpd: \_\_\_\_\_  
 Avg TP: \_\_\_\_\_ Avg Rate: \_\_\_\_\_ Total Prop pmpd: \_\_\_\_\_  
 ISIP: \_\_\_\_\_ 5 min: \_\_\_\_\_ 10 min: \_\_\_\_\_ FG: \_\_\_\_\_  
 Completion Supervisor: Orson Barney

DAILY COST: \$0  
 TOTAL WELL COST: \$0



## DAILY COMPLETION REPORT

WELL NAME: Fed 14-18-9-16 Report Date: Oct. 26, 2007 Day: 6  
 Operation: Completion Rig: Western #4

## WELL STATUS

Surf Csg: 8 5/8' @ 321' Prod Csg: 5 1/2" @ 5957' Csg PBTD: 5917'  
 Tbg: Size: 2 7/8" Wt: 6.5# Grd: J-55 Pkr/EOT @: 1870' BP/Sand PBTD: 5917'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB4 sds	4128-4140'	4/48	B2 sds	4937-4941'	4/16
D1 sds	4660-4666'	4/24	A3 sds	5146-5155'	4/36
D2 sds	4708-4716'	4/32	LODC	5308-5330'	4/88
C sds	4790-4806'	4/64			
B.5 sds	4878-4785'	4/28			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: Oct. 25, 2007 SITP: 50 SICP: 100

Finish rig repairs.

Bleed pressure off well. Rec est 15 BTF. Resume swabbing well for cleanup. IFL @ sfc. Made 6 swb runs rec 75 BTF W/ tr oil, light gas & no sd. FFL @ 700'. TIH W/ tbg. Tag sd @ 5915' (2' new fill). C/O sd to PBTD @ 5917'. Circ hole clean. Lost 25 BW & rec tr oil. LD excess tbg. TOH W/ tbg to 1870'. SIFN W/ est 3125 BWTR.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 3175 Starting oil rec to date: \_\_\_\_\_  
 Fluid lost/recovered today: 50 Oil lost/recovered today: \_\_\_\_\_  
 Ending fluid to be recovered: 3125 Cum oil recovered: \_\_\_\_\_  
 IFL: sfc FFL: 700' FTP: \_\_\_\_\_ Choke: \_\_\_\_\_ Final Fluid Rate: \_\_\_\_\_ Final oil cut: tr

## STIMULATION DETAIL

Base Fluid used: \_\_\_\_\_ Job Type: \_\_\_\_\_

Company: \_\_\_\_\_

Procedure or Equipment detail: \_\_\_\_\_

## COSTS

Western #4

Weatherford BOP

Weatherford BOP repair

CDI TA/SN

NPC supervision

Max TP: \_\_\_\_\_ Max Rate: \_\_\_\_\_ Total fluid pmpd: \_\_\_\_\_

Avg TP: \_\_\_\_\_ Avg Rate: \_\_\_\_\_ Total Prop pmpd: \_\_\_\_\_

ISIP: \_\_\_\_\_ 5 min: \_\_\_\_\_ 10 min: \_\_\_\_\_ FG: \_\_\_\_\_

Completion Supervisor: Gary Dietz

DAILY COST: \_\_\_\_\_ \$0

TOTAL WELL COST: \_\_\_\_\_ \$0



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WELL STATUS										
Surf Csg:	8 5/8'	@	321'		Prod Csg:	5 1/2"	@	5957'	Csg PBTD:	5917'
Tbg:	Size:	2 7/8"	Wt:	6.5#	Grd:	J-55	Anchor @:	5268'	BP/Sand PBTD:	5917'

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
GB4 sds	4128-4140'	4/48	B2 sds	4937-4941'	4/16
D1 sds	4660-4666'	4/24	A3 sds	5146-5155'	4/36
D2 sds	4708-4716'	4/32	LODC	5308-5330'	4/88
C sds	4790-4806'	4/64			
B.5 sds	4878-4785'	4/28			

**Date Work Performed:** Oct. 26, 2007 **SITP:** 0 **SICP:** 0

Con't TOH W/ tbg f/ 1870'--LD bit. TIH W/ BHA & production tbg as follows: 2 7/8 NC, 2 jts tbg, SN, 2 jts tbg, new CDI 5 1/2" TA (45K) & 169 jts 2 7/8 8rd 6.5# J-55 tbg. ND BOP. Set TA @ 5268' W/ SN @ 5332' & EOT @ 5395'. Land tbg W/ 16,000# tension NU wellhead. RU HO trk & flush tbg W/ 60 BW @ 250 F (returned same). PU & TIH W/ pump and "B" grade rod string as follows new CDI 2 1/2" X 1 1/2" X 15.5' RHAC pump, 6-1 1/2" weight rods, 20-3/4" scraped rods, 86-3/4" plain rods, 100-3/4" scraperec rods, 1-4' & 1-2' X 3/4" pony rods and 1 1/2" X 26' polished rod. Seat pump & RU pumping unit. W/ tbg full, pressure test tbg 8 pump to 200 psi. Stroke pump up W/ unit to 800 psi. Good pump action. RDMOSU. Est 3125 BWTR.

**Place well on production @ 4:30 PM 10/26/2007 W/ 102" SL @ 5 SPM.**

## FINAL REPORT!!

<b>Starting fluid load to be recovered:</b>	<b>3125</b>	<b>Starting oil rec to date:</b>	
<b>Fluid lost/<u>recovered</u> today:</b>	<b>0</b>	<b>Oil lost/recovered today:</b>	
<b>Ending fluid to be recovered:</b>	<b>3125</b>	<b>Cum oil recovered:</b>	
<b>IFL:</b>	<b>FFL:</b>	<b>FTP:</b>	<b>Choke:</b>
			<b>Final Fluid Rate:</b>
			<b>Final oil cut:</b>

## **COSTS**

KB	12.00'	1 1/2" X 26' polished rod	Western #4
169	2 7/8 J-55 tbg (5256.41')	1-8', 1-6', 1-2' X 3/4" pony rod	Weatherford BOP
	TA (2.80' @ 5268.41' KB)	99-3/4" scraped rods	NPC trucking
2	2 7/8 J-55 tbg (60.79')	82-3/4" plain rods	CDI rod pump
	SN (1.10' @ 5332.00' KB)	20-3/4" scraped rods	"B" grade rod string
2	2 7/8 J-55 tbg (61.57')	6-1 1/2" weight rods	Action HO trk
	2 7/8 NC (.45')	CDI 2 1/2"X 1 1/2" X 10'x 14'	NPC frac tks(10X5 dys)
EOT	5395.12' W/ 12' KB	RHAC pump W/ SM plunger	NPC swab tk (5 days)
			NPC frac head
			NDSI pump rental
			NPC supervision

**DAILY COST:** \$0

**Completion Supervisor:** Gary Dietz

**TOTAL WELL COST:**

## **ATTACHMENT H**

### **WORK PROCEDURE FOR PLUGGING AND ABANDONMENT**

1. Set CIBP @ 4078'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 167' balance plug using 21 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Plug #4 Pump 50 sx Class "G" cement down 5 ½" casing to 374'

The approximate cost to plug and abandon this well is \$42,000.

## FEDERAL 14-18-9-16

Spud Date: 09/17/07  
Put on Production: 10/26/07  
GL: 6117' KB: 6129'

Initial Production: BOPD,  
MCFD, BWPD

### Proposed P & A Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (309.62')  
DEPTH LANDED: 321.47' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 7 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 155 jts. (5943.54')  
DEPTH LANDED: 5956.79' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP: 114'

Cement Top @ 114'

Pump 50 sx Class "G" Cement down 5-1/2" casing to 374'

120' balance plug using 14 sx Class "G" cement 60' above Uinta/Green River and extending 60' below (1517'-1637')

167' balance plug using 21 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale (2835'-3002')

100' (12 sx) Class G Cement plug on top of CIBP

CIBP @ 4078'  
4128-4140'

4660-4666'  
4708-4716'  
4790-4806'  
4878-4785'  
4937-4941'  
5146-5155'  
5308-5330'

PBTD @ 5917'  
TD @ 5975'

**NEWFIELD**

**FEDERAL 14-18-9-16**

1040' FSL & 2047' FWL

SE/SW Section 18-T9S-R16E

Duchesne Co, Utah

API #43-013-33000; Lease # UTU-64379

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-410

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 15, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTIONS 6, 15, 18, 19, 20, and 30, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17<sup>th</sup> Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:

Ashley Federal 10-15-9-15 well located in NW/4 SE/4, Section 15, Township 9 South, Range 15 East  
API 43-013-32471

West Point U 12-6-9-16 well located in NW/4 SW/4, Section 6, Township 9 South, Range 16 East  
API 43-013-31765

Jonah Federal 16-15-9-16 well located in SE/4 SE/4, Section 15, Township 9 South, Range 16 East  
API 43-013-32754

Federal 12-18-9-16 well located in NW/4 SW/4, Section 18, Township 9 South, Range 16 East  
API 43-013-32998

Federal 14-18-9-16 well located in SE/4 SW/4, Section 18, Township 9 South, Range 16 East  
API 43-013-33000

Federal 13-19-9-16 well located in SW/4 SW/4, Section 19, Township 9 South, Range 16 East  
API 43-013-33103

Monument Federal 22-20-9-16 well located in SE/4 NW/4, Section 20, Township 9 South, Range 16 East  
API 43-013-31681

Federal 3-30-9-16 well located in NE/4 NW/4, Section 30, Township 9 South, Range 16 East  
API 43-013-33454

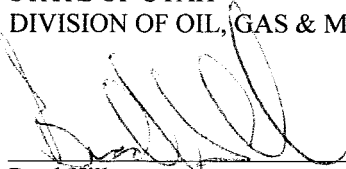
The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 11<sup>th</sup> day of June, 2013.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

  
\_\_\_\_\_  
Brad Hill  
Permitting Manager

**Newfield Production Company**

**ASHLEY FEDERAL 10-15-9-15, WEST POINT U 12-6-9-16,  
JONAH FEDERAL 16-15-9-16, FEDERAL 12-18-9-16,  
FEDERAL 14-18-9-16, FEDERAL 13-19-9-16  
MONUMENT FEDERAL 22-20-9-16, FEDERAL 3-30-9-16**

**Cause No. UIC-410**

Publication Notices were sent to the following:

Newfield Production Company  
1001 17th Street, Suite 2000  
Denver, CO 80202

Ute Tribe  
P O Box 190  
Ft. Duchesne, UT 84026

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066  
via e-mail [legals@ubstandard.com](mailto:legals@ubstandard.com)

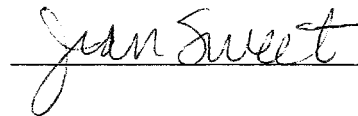
Duchesne County Planning  
P O Box 317  
Duchesne, UT 84021-0317

Salt Lake Tribune  
P O Box 45838  
Salt Lake City, UT 84145  
via e-mail [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

Bruce Suchomel  
US EPA Region 8  
MS 8P-W-GW  
1595 Wynkoop Street  
Denver, CO 80202-1129

Vernal Office  
Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

  
\_\_\_\_\_





GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

June 11, 2013

Via e-mail: [legals@ubstandard.com](mailto:legals@ubstandard.com)

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-410

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: [jsweet@utah.gov](mailto:jsweet@utah.gov).

Please send proof of publication and billing to:

Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure



6/12/13

State of Utah Mail - Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-410



Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-410

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## Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-410

---

**Cindy Kleinfelter** <classifieds@ubstandard.com>

Wed, Jun 12, 2013 at 10:20 AM

To: Jean Sweet <jsweet@utah.gov>

On 6/11/2013 2:40 PM, Jean Sweet wrote:

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing to:

Division of Oil, Gas and Mining

PO Box 145801

Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet

—

Jean Sweet

Executive Secretary

Utah Division of Oil, Gas and Mining

801-538-532

This will run June 18.

Thank you,

Cindy



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

June 11, 2013

VIA E-MAIL [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

Salt Lake Tribune  
P. O. Box 45838  
Salt Lake City, UT 84145

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-410

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: [jsweet@utah.gov](mailto:jsweet@utah.gov).

Please send proof of publication and billing for **account #9001402352** to:

Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

Sincerely,

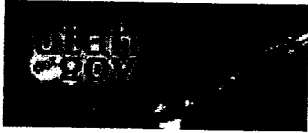
Jean Sweet  
Executive Secretary

Enclosure



6/12/13

State of Utah Mail - Proof for Notice



---

## Proof for Notice

---

**Stowe, Ken** <naclegal@mediaoneutah.com>  
Reply-To: "Stowe, Ken" <naclegal@mediaoneutah.com>  
To: jsweet@utah.gov

Tue, Jun 11, 2013 at 3:21 PM

AD# 886505  
Run SL Trib & Des News 6/14  
Cost \$267.08  
Thank You



**OrderConf.pdf**  
125K

## Order Confirmation for Ad #0000886505-01

<b>Client</b>	DIV OF OIL-GAS & MINING	<b>Payor Customer</b>	DIV OF OIL-GAS & MINING
<b>Client Phone</b>	801-538-5340	<b>Payor Phone</b>	801-538-5340
<b>Account#</b>	9001402352	<b>Payor Account</b>	9001402352
<b>Address</b>	1594 W NORTH TEMP #1210, P.O. BOX 145801 SALT LAKE CITY, UT 84114 USA	<b>Payor Address</b>	1594 W NORTH TEMP #1210, P.O. BO SALT LAKE CITY, UT 84114

<b>Fax</b>	801-359-3940	<b>Ordered By</b>	<b>Acct. Exec</b>
<b>Email</b>	juliecarter@utah.gov	Jean	kstowe

<b>Total Amount</b>	<b>\$267.08</b>	<b>Tear Sheets</b>	<b>Proofs</b>	<b>Affidavits</b>
<b>Payment Amt</b>	<b>\$0.00</b>			
<b>Amount Due</b>	<b>\$267.08</b>	0	0	1
<b>Payment Method</b>		<b>PO Number</b>	Cause No. UIC-410	
<b>Confirmation Notes:</b>				
<b>Text:</b>	Jean			

<b>Ad Type</b>	<b>Ad Size</b>	<b>Color</b>
Legal Liner	2.0 X 78 Li	<NONE>

<b>Product</b>	<b>Placement</b>	<b>Position</b>
Salt Lake Tribune::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	6/14/2013	
<b>Product</b>	<b>Placement</b>	<b>Position</b>
Deseret News::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	6/14/2013	
<b>Product</b>	<b>Placement</b>	<b>Position</b>
sltrib.com::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	6/14/2013	
<b>Product</b>	<b>Placement</b>	<b>Position</b>
utahlegals.com::	utahlegals.com	utahlegals.com
<b>Scheduled Date(s):</b>	6/14/2013	

### Ad Content Proof Actual Size

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-410

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 15, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTIONS 6, 15, 18, 19, 20, AND 30, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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#### Greater Monument Butte Unit:

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API 43-013-32471  
West Point U 12-4-9-16 well located in NW/4 SW/4, Section 6, Township 9 South, Range 16 East  
API 43-013-31765  
Jarrah Federal 16-15-9-16 well located in SE/4 SE/4, Section 15, Township 9 South, Range 16 East  
API 43-013-32754  
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API 43-013-32998  
Federal 14-18-9-16 well located in SE/4 SW/4, Section 18, Township 9 South, Range 16 East  
API 43-013-33000  
Federal 13-19-9-16 well located in SW/4 SW/4, Section 19, Township 9 South, Range 16 East  
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The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

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Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 11th day of June, 2013.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/  
Brad Hill  
Permitting Manager

886505

UPAXLP

4770 S. 5600 W.  
P.O. BOX 704005  
WEST VALLEY CITY, UTAH 84170  
FED. TAX I.D.# 87-0217663  
801-204-6910

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WWW.DESERETNEWS.COM

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CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING,  1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	9001402352	6/14/2013

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
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API 43-013-32754

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API 43-013-32998

Federal 14-18-9-16 well located in SE/4 SW/4, Section 11, Township 9 South, Range 16 East  
API 43-013-33000

Federal 13-19-9-16 well located in SW/4 SW/4, Section 19, Township 9 South, Range 16 East  
API 43-013-33103

Monument Federal 22-20-9-16 well located in SE/4 NW/4, Section 20, Township 9 South, Range 16 East  
API 43-013-31681

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Dated this 11th day of June, 2013.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

/s/  
Brad Hill  
Permitting Manager

886505 UPAXUF

AFFIDAVIT OF PUBLICATION

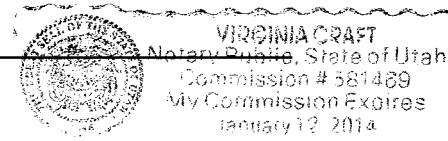
AS NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH LEGAL BOOKER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-410 IN THE MATTER OF THE APPLICATION FOR DIV OF OIL-GAS & MINING, WAS PUBLISHED BY THE NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH. NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON UTAHLEGALS.COM INDEFINITELY.

PUBLISHED ON Start 06/14/2013 End 06/14/2013

SIGNATURE

6/14/2013

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PLEASE PAY FROM BILLING STATEMENT

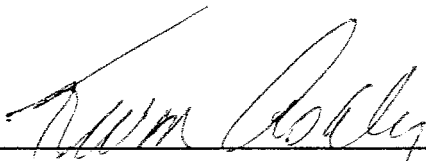


Virginia Craft

# AFFIDAVIT OF PUBLICATION

County of Duchesne,  
STATE OF UTAH

I, Kevin Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 18 day of June, 20 13, and that the last publication of such notice was in the issue of such newspaper dated the 18 day of June, 20 13, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

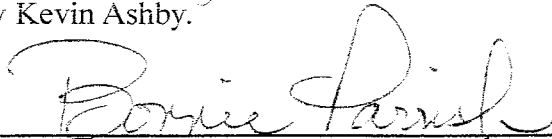


Publisher

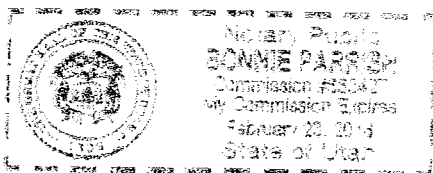
Subscribed and sworn to before me on this

19 day of June, 20 13

by Kevin Ashby.



Notary Public



## NOTICE OF AGENCY AC- TION CAUSE NO. UTC-410

BEFORE THE DI-  
VISION OF OIL, GAS  
AND MINING, DE-  
PARTMENT OF NAT-  
URAL RESOURCES,  
STATE OF UTAH

IN THE MATTER  
OF THE APPLICA-  
TION OF NEW-  
FIELD PRODUC-  
TION COMPANY  
FOR ADMINISTRA-  
TIVE APPROVAL  
OF CERTAIN WELLS  
LOCATED IN SEC-  
TION 15, TOWN-  
SHIP 9 SOUTH,  
RANGE 15 EAST,  
AND SECTIONS 6,  
15, 18, 19, 20, and  
30, TOWNSHIP 9  
SOUTH, RANGE 16  
EAST, DUCHESNE  
COUNTY, UTAH, AS  
CLASS II INJEC-  
TION WELLS.

THE STATE OF  
UTAH TO ALL PER-  
SONS INTERESTED  
IN THE ABOVE EN-  
TITLED MATTER.

Notice is hereby  
given that the Division  
of Oil, Gas and Min-  
ing (the "Division")  
is commencing an in-  
formal adjudicative  
proceeding to consider  
the application of New-  
field Production Com-  
pany, 1001 17th Street,  
Suite 2000, Denver,  
Colorado 80202, tele-  
phone 303-893-0102,  
for administrative ap-  
proval of the following  
wells located in Duch-  
esne County, Utah, for  
conversion to Class II  
injection wells:

Greater Monument  
Butte Unit:

Ashley Federal 10-  
15-9-15 well located  
in NW/4 SE/4, Section  
15, Township 9 South,  
Range 15 East

API 43-013-32471

West Point U 12-6-  
9-16 well located in  
NW/4 SW/4, Section  
6, Township 9 South,  
Range 16 East

API 43-013-31765

Jonah Federal 16-  
15-9-16 well located  
in SE/4 SE/4, Section  
15, Township 9 South,  
Range 16 East

API 43-013-32754

Federal 12-18-9-  
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injection. The maxi-  
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tion pressures and rates  
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mitted by Newfield  
Production Company.

Any person desir-  
ing to object to the  
application or oth-  
erwise intervene in  
the proceeding, must  
file a written protest  
or notice of interven-  
tion with the Division  
within fifteen days  
following publication  
of this notice. The Di-  
vision's Presiding Of-  
ficer for the proceeding  
is Brad Hill, Permitting  
Manager, at P.O. Box  
145801, Salt Lake City,  
UT 84114-5801, phone  
number (801) 538-  
5340. If such a protest  
or notice of interven-  
tion is received, a hear-  
ing will be scheduled  
in accordance with  
the aforementioned  
administrative pro-  
cedural rules. Protes-  
tants and/or interven-  
ers should be prepared  
to demonstrate at the  
hearing how this matter  
affects their interests.

Dated this 11th day  
of June, 2013.

STATE OF UTAH  
DIVISION OF OIL,  
GAS & MINING

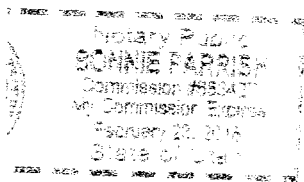
/s/

Brad Hill

Permitting Manager

Published in the  
Uintah Basin Standard  
June 18, 2013.

Yee Tarnst  
Notary Public



injection wells:  
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Butte Unit:

Ashley Federal 10-  
15-9-15 well located  
in NW/4 SE/4, Section  
15, Township 9 South,  
Range 15 East

API 43-013-32471

West Point U 12-6-  
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API 43-013-32998

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API 43-013-33000

Federal 13-19-9-  
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SW/4 SW/4, Section  
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Range 16 East

API 43-013-33103

Monument Federal  
22-20-9-16 well lo-  
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Section 20, Township  
9 South, Range 16 East

API 43-013-31681

Federal 3-30-9-16  
well located in NE/4  
NW/4, Section 30,  
Township 9 South,  
Range 16 East

API 43-013-33454

The proceeding will  
be conducted in ac-  
cordance with Utah  
Admin. R649-10, Ad-  
ministrative Proce-  
dures.

Permitting Manager  
Published in the  
Uintah Basin Standard  
June 18, 2013.



**DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM  
PERMIT  
STATEMENT OF BASIS**

**Applicant:** Newfield Production Company      **Well:** Federal 14-18-9-16

**Location:** 18/9S/16E      **API:** 43-013-33000

**Ownership Issues:** The proposed well is located on BLM land. The well is located in the Greater Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM. The Federal Government is the mineral owner within the area of review (AOR). Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Greater Monument Butte Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

**Well Integrity:** The proposed well has surface casing set at 321 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,957 feet. The cement bond log is somewhat problematic but appears to demonstrate adequate bond in this well up to about 3,250 feet. A 2 7/8 inch tubing with a packer will be set at 4,078 feet. Higher perforations will be opened at a later date. A mechanical integrity test will be run on the well prior to injection. Based on surface locations, there are 9 producing wells and 4 injection wells in the AOR. Two of the producing wells are directionally drilled, with surface locations inside the AOR and bottom hole locations outside the AOR. In addition, there is 1 directional producing well with a surface location outside the AOR and a bottom hole location inside the AOR. Also, there are 2 approved surface locations inside the AOR, from which directional wells will be drilled to bottom hole locations outside the AOR. All of the existing wells have evidence of adequate casing and cement for the proposed injection interval.

**Ground Water Protection:** As interpreted from the Utah Geological Survey's DOE Project-Uinta Basin Water Draft Map (Paul B. Anderson, December 2, 2011), the base of moderately saline water (3000-10,000 mg/l TDS) is at a depth of approximately 2200 feet. Injection shall be limited to the interval between 3,972 feet and 5,917 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 14-18-9-16 well is 0.87 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,787 psig. The requested maximum pressure is 1,787 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

**Federal 14-18-9-16**

**page 2**

**Oil/Gas& Other Mineral Resources Protection:** The Board of Oil, Gas & Mining approved the Greater Monument Butte Unit on December 1, 2009. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

**Bonding:** Bonded with the BLM

**Actions Taken and Further Approvals Needed:** A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Mark Reinbold Date: 6/20/2013



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

July 10, 2013

Newfield Production Company  
1001 Seventeenth Street, Suite 2000  
Denver, CO 80202

Subject: Greater Monument Butte Unit Well: Federal 14-18-9-16, Section 18, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-33000

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
3. A casing/tubing pressure test shall be conducted prior to commencing injection.
4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
5. The top of the injection interval shall be limited to a depth no higher than 3,972 feet in the Federal 14-18-9-16 well.

A final approval to commence injection will be issued upon satisfactory completion of the listed stipulations. If you have any questions regarding this approval or the necessary requirements, please contact Mark Reinbold at 801-538-5333 or Brad Hill at 801-538-5315.

Sincerely,

John Rogers  
Associate Director

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Duchesne County  
Newfield Production Company, Myton  
Well File

N:\O&G Reviewed Docs\ChronFile\UIC







GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-410

**Operator:** Newfield Production Company  
**Well:** Federal 14-18-9-16  
**Location:** Section 18, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-33000  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on July 10, 2013.
2. Maximum Allowable Injection Pressure: 1,787 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (3,972' – 5,917')
5. Any subsequent wells drilled within a ½ mile radius of this well shall have production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by:

  
John Rogers  
Associate Director

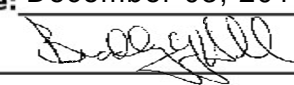
12/9/2013  
Date

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Eric Sundberg, Newfield Production Company, Denver  
Newfield Production Company, Myton  
Duchesne County  
Well File

N:\O&G Reviewed Docs\ChronFile\UIC\Newfield



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-64379
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630, Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> FEDERAL 14-18-9-16
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1040 FSL 2047 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 18 Township: 09.0S Range: 16.0E Meridian: S		<b>9. API NUMBER:</b> 43013330000000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input checked="" type="checkbox"/> SUBSEQUENT REPORT <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> CONVERT WELL TYPE Date of Work Completion: 10/25/2013	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> APD EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
The subject well has been converted from a producing oil well to an injection well on 10/23/2013. On 10/24/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/25/2013 the casing was pressured up to 1415 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 400 psig during the test. There was not a State representative available to witness the test.		
<b>Accepted by the Utah Division of Oil, Gas and Mining</b>		<b>Date:</b> December 03, 2013
<b>By:</b> 		<b>DATE</b> 10/30/2013
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto		<b>PHONE NUMBER</b> 435 646-4874
<b>SIGNATURE</b> N/A		<b>TITLE</b> Water Services Technician

# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company

Rt. 3 Box 3630

Myton, UT 84052

435-646-3721

Witness: \_\_\_\_\_ Date 10/25/13 Time 11:40 @ am pmTest Conducted by: Jonny Daniels

Others Present: \_\_\_\_\_

Well: Federal 14-18-9-16Field: Monument ButteWell Location: SE/SW Sec. 18, T9S, R10E  
Duchesne county, UtahAPI No: 4301333000

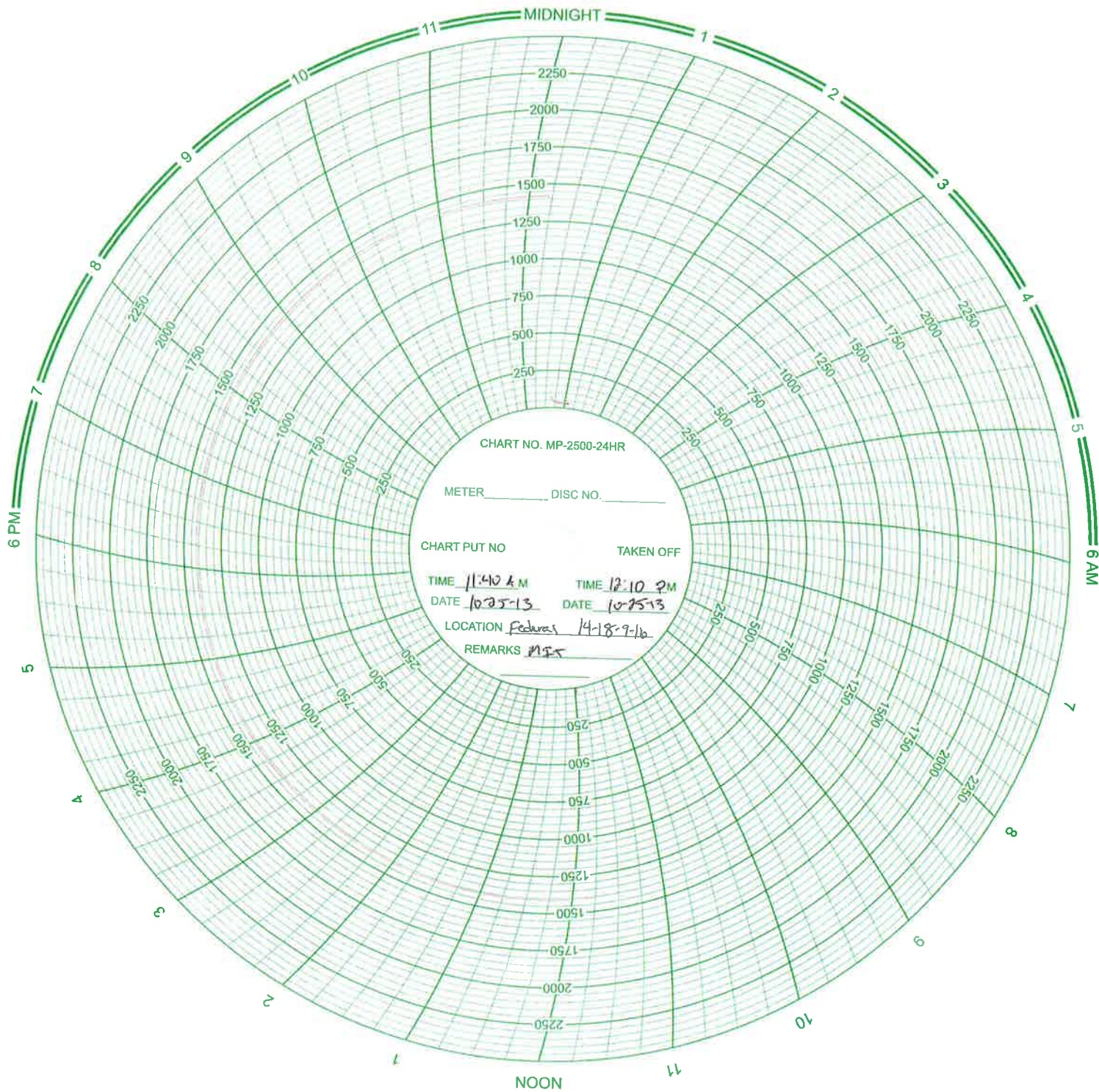
<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1415</u>	psig
5	<u>1415</u>	psig
10	<u>1415</u>	psig
15	<u>1415</u>	psig
20	<u>1415</u>	psig
25	<u>1415</u>	psig
30 min	<u>1415</u>	psig
35		psig
40		psig
45		psig
50		psig
55		psig
60 min		psig

Tubing pressure: 400 psigResult: Pass Fail

Signature of Witness: \_\_\_\_\_

Signature of Person Conducting Test: Jonny Daniels







**Daily Activity Report****Format For Sundry****FEDERAL 14-18-9-16****8/1/2013 To 12/30/2013****10/22/2013 Day: 1****Conversion**

Nabors #1108 on 10/22/2013 - unhang rods and horse head. Pump 60 bbls down csg using hot oiler. Unset pump and pull high flush tbg with 40bbls water using hot oiler - unhang rods and horse head. Pump 60 bbls down csg using hot oiler. Unset pump and pull high flush tbg with 40bbls water using hot oiler. Soft seat and test. PT tbg to 3000psi good test. pooh with rods laying down on trailer. RD flow line, release TAC. NU BOP, SWIFN. - unhang rods and horse head. Pump 60 bbls down csg using hot oiler. Unset pump and pull high flush tbg with 40bbls water using hot oiler. Soft seat and test. PT tbg to 3000psi good test. pooh with rods laying down on trailer. RD flow line, release TAC. NU BOP, SWIFN. - unhang rods and horse head. Pump 60 bbls down csg using hot oiler. Unset pump and pull high flush tbg with 40bbls water using hot oiler. Soft seat and test. PT tbg to 3000psi good test. pooh with rods laying down on trailer. RD flow line, release TAC. NU BOP, SWIFN. **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$15,348**10/23/2013 Day: 2****Conversion**

Nabors #1108 on 10/23/2013 - Check Pressure, TBG and CSG pressure 20 PSI, well and open BOP, POOH with tbg breaking every connection. Cleaning inspecting threads, - Check Pressure, TBG and CSG pressure 20 PSI, well and open BOP, POOH with tbg breaking every connection. Cleaning inspecting threads, apply liquid O ring and retorque to spec. LD excess tbg from bottom of string. PU/ MU packer BHA Assy, tih with tbg. Tbg detail as follows, 2 3/8 XN, 2 3/8, 4' sub, XO, packer, on/off tool, 2 7/8 PSN, 130JNTS 2 7/8 TBG. RU HOT oiler, pump 10 BBLS PAD and drop S.V. pump to psn, pressure up to 3000psi and start test bled down 100psi in 10 min, bump up and retest. good test. RU sandline and fishing tools Rih to catch SV pooh With sandline and SV, SWIFN - Check Pressure, TBG and CSG pressure 20 PSI, well and open BOP, POOH with tbg breaking every connection. Cleaning inspecting threads, apply liquid O ring and retorque to spec. LD excess tbg from bottom of string. PU/ MU packer BHA Assy, tih with tbg. Tbg detail as follows, 2 3/8 XN, 2 3/8, 4' sub, XO, packer, on/off tool, 2 7/8 PSN, 130JNTS 2 7/8 TBG. RU HOT oiler, pump 10 BBLS PAD and drop S.V. pump to psn, pressure up to 3000psi and start test bled down 100psi in 10 min, bump up and retest. good test. RU sandline and fishing tools Rih to catch SV pooh With sandline and SV, SWIFN - Check Pressure, TBG and CSG pressure 20 PSI, well and open BOP, POOH with tbg breaking every connection. Cleaning inspecting threads, apply liquid O ring and retorque to spec. LD excess tbg from bottom of string. PU/ MU packer BHA Assy, tih with tbg. Tbg detail as follows, 2 3/8 XN, 2 3/8, 4' sub, XO, packer, on/off tool, 2 7/8 PSN, 130JNTS 2 7/8 TBG. RU HOT oiler, pump 10 BBLS PAD and drop S.V. pump to psn, pressure up to 3000psi and start test bled down 100psi in 10 min, bump up and retest. good test. RU sandline and fishing tools Rih to catch SV pooh With sandline and SV, SWIFN **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$23,336**10/24/2013 Day: 3****Conversion**

Nabors #1108 on 10/24/2013 - Check Pressure, TBG and csg 20 PSI, BD well. Open BOP. RD work floor, ND BOP land tbg on injection tree and NU WH. Pump 50 packer fluid down csg usign hot oiler - Check Pressure, TBG and csg 20 PSI, BD well. Open BOP. RD work floor, ND

BOP land tbg on injection tree and NU WH. Pump 50 packer fluid down csg usign hot oiler. ND WH Set packer breaking out tbg sub, NU WH, Ru hot oiler and pressure up CSG to 1400. pressure test cgs to 1400 psi for 30 min. BAD test bump, Bump up and retest. RD rig rack out winch truck and tools. RDMO - Check Pressure, TBG and csg 20 PSI, BD well. Open BOP. RD work floor, ND BOP land tbg on injection tree and NU WH. Pump 50 packer fluid down csg usign hot oiler. ND WH Set packer breaking out tbg sub, NU WH, Ru hot oiler and pressure up CSG to 1400. pressure test cgs to 1400 psi for 30 min. BAD test bump, Bump up and retest. RD rig rack out winch truck and tools. RDMO - Check Pressure, TBG and csg 20 PSI, BD well. Open BOP. RD work floor, ND BOP land tbg on injection tree and NU WH. Pump 50 packer fluid down csg usign hot oiler. ND WH Set packer breaking out tbg sub, NU WH, Ru hot oiler and pressure up CSG to 1400. pressure test cgs to 1400 psi for 30 min. BAD test bump, Bump up and retest. RD rig rack out winch truck and tools. RDMO **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$29,603

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**10/28/2013 Day: 4**

**Conversion**

Rigless on 10/28/2013 - Conduct initial MIT - On 10/24/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/25/2013 the casing was pressured up to 1415 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 400 psig during the test. There was not a State representative available to witness the test. - On 10/24/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/25/2013 the casing was pressured up to 1415 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 400 psig during the test. There was not a State representative available to witness the test. - On 10/24/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/25/2013 the casing was pressured up to 1415 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 400 psig during the test. There was not a State representative available to witness the test. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$61,815

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**Pertinent Files: [Go to File List](#)**

Spud Date: 09/17/07  
 Put on Production: 10/26/07  
 GL: 6117' KB: 6129'

# FEDERAL 14-18-9-16

## Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (309.62')  
 DEPTH LANDED: 321.47' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 1- 160, sxs Class "G" cmt, est 7 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 155 jts. (5943.54')  
 DEPTH LANDED: 5956.79' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem, Lite II mixed & 400 sxs 50/50 POZ,  
 CEMENT TOP: 114'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 130 jts (4043.1')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4056.3' KB  
 ON/OFF TOOL AT: 4057.4'  
 ARROW #1 PACKER CE AT: 4062.5'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4066.2'  
 TBG PUP 2-3/8 J-55 AT: 4066.7'  
 X/N NIPPLE AT: 4070.8'  
 TOTAL STRING LENGTH: EOT @ 4072.41'

### FRAC JOB

10/17/07	5308-5330'	<b>Frac LODC sands as follows:</b> 100563# 20/40 sand in 746 bbls Lightning 17 frac fluid. Treated @ avg press of 1698 psi w/avg rate of 23 BPM, ISIP 2105 psi. Calc flush: 5306 gal. Actual flush: 4796 gal.
10/17/07	5146-5155'	<b>Frac A3 sands as follows:</b> 60790# 20/40 sand in 549 bbl Lightning 17 frac fluid. Treated @ avg press of 2146 psi w/avg rate of 23 BPM, ISIP 2344 psi. Calc flush: 5144 gal. Actual flush: 2344 gal.
10/17/07	4878-4941'	<b>Frac B2 &amp; B.5 sands as follows:</b> 24732# 20/40 sand in 353 bbls Lightning 17 frac fluid. Treated @ avg press of 2039 psi w/avg rate of 23 BPM, ISIP 1949 psi. Calc flush: 4876 gal. Actual flush: 4389 gal.
10/17/07	4790-4806'	<b>Frac C sands as follows:</b> 95455# 20/40 sand in 728 bbls Lightning 17 frac fluid. Treated @ avg press of 1858 psi w/avg rate of 23 BPM, ISIP 1858 psi. Calc flush: 4788 gal. Actual flush: 4305 gal.
10/17/07	4660-4716'	<b>Frac D1 &amp; D2 sands as follows:</b> 70174# 20/40 sand in 571 bbls Lightning 17 frac fluid. Treated @ avg press of 2111 psi w/avg rate of 23 BPM, ISIP 2427 psi. Calc flush: 4658 gal. Actual flush: 4154 gal.
10/17/07	4128-4140'	<b>Frac GB4 sands as follows:</b> 88281# 20/40 sand in 658 bbls Lightning 17 frac fluid. Treated @ avg press of 1695 psi w/avg rate of 23 BPM, ISIP 1814 psi. Calc flush: 4126 gal. Actual flush: 4032 gal.
6/28/08		<b>Hole in tubing.</b> Rod & tubing updated.
11/07/10		<b>Pump change.</b> Rod & Tubing updated
7/13/2011		<b>Tubing leak.</b> Rod & tubing updated.
10/23/13		<b>Convert to Injection Well</b>
10/25/13		<b>Conversion MIT Finalized</b> -- update tbg detail

### PERFORATION RECORD

10/15/07	5308-5330'	4 JSPF	88 holes
10/17/07	5146-5155'	4 JSPF	36 holes
10/17/07	4937-4941'	4 JSPF	16 holes
10/17/07	4878-4785'	4 JSPF	28 holes
10/17/07	4790-4806'	4 JSPF	64 holes
10/17/07	4708-4716'	4 JSPF	32 holes
10/17/07	4660-4666'	4 JSPF	24 holes
10/17/07	4128-4140'	4 JSPF	48 holes

Cement Top @ 114'

SN @ 4056'  
 On Off Tool @ 4057'  
 Packer @ 4062'  
 X/N Nipple @ 4071'  
 EOT @ 4072'  
 4128-4140'  
 4660-4666'  
 4708-4716'  
 4790-4806'  
 4878-4785'  
 4937-4941'  
 5146-5155'  
 5308-5330'  
 PBTD @ 5917'  
 TD @ 5975'



### FEDERAL 14-18-9-16

1040' FSL & 2047' FWL  
 SE/SW Section 18-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33000; Lease # UTU-64379

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-64379
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> FEDERAL 14-18-9-16
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1040 FSL 2047 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 18 Township: 09.0S Range: 16.0E Meridian: S		<b>9. API NUMBER:</b> 43013330000000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/3/2014	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input checked="" type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;">           The above reference well was put on injection at 10:30 AM on            01/03/2014.         </div> <div style="width: 35%; text-align: center;"> <b>Accepted by the              Utah Division of              Oil, Gas and Mining              FOR RECORD ONLY              January 09, 2014</b> </div> </div>		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/9/2014	